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Quanterra
Environmental Services

ANALYTICAL REPORT

PROJECT NO. 773701
PBOW-~~GW Dry Season Event~~ Red Water Ponds HEM 8/4/98
SDG #: PB027

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

July 15, 1998

200-1e

G05OH001820_03.02_1001_a

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB027

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
B8F050164-009	D	06/05/98	LAB MS/MSD
B8F050164-009	S	06/05/98	LAB MS/MSD
B8F060103-004	D	06/06/98	LAB MS/MSD
B8F060103-004	S	06/06/98	LAB MS/MSD
B8F100000-154	L	06/09/98	DUPLICATE CHECK
B8F170000-153	L	06/06/98	DUPLICATE CHECK
B8F170000-157	L	06/09/98	DUPLICATE CHECK
B8F180000-170	L	05/21/98	DUPLICATE CHECK
B8F180000-243	L	06/10/98	DUPLICATE CHECK
B8F180000-245	L	06/09/98	DUPLICATE CHECK
B8F290000-133	L	06/10/98	DUPLICATE CHECK
H8F020185-001	D	06/02/98	LAB MS/MSD
H8F020185-001	S	06/02/98	LAB MS/MSD
H8F060144-002	D	06/06/98	LAB MS/MSD
H8F060144-002	S	06/06/98	LAB MS/MSD
H8F090176-001		06/09/98	7310
H8F090176-001	D	06/09/98	7310
H8F090176-001	S	06/09/98	7310
H8F090176-002		06/09/98	7310
H8F090176-003		06/09/98	7311
H8F100194-001		06/10/98	7350
H8F100194-001	D	06/10/98	7350
H8F100194-001	S	06/10/98	7350
H8F100194-001	X	06/10/98	7350 DUP
H8F100194-002		06/10/98	7350
H8F100194-002	D	06/10/98	7350
H8F100194-002	S	06/10/98	7350
H8F100194-003		06/10/98	7430
H8F100194-004		06/10/98	9026
H8F110000-289	L	06/09/98	DUPLICATE CHECK
H8F110182-001		06/11/98	7470
H8F110182-002		06/11/98	7510

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Environmental Services

SDG SAMPLE SUMMARY REPORT

PB027

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F110182-003		06/11/98	7590
H8F110182-004		06/11/98	9027
H8F110182-005		06/11/98	7470
H8F110182-006		06/11/98	7510
H8F110182-007		06/11/98	7590
H8F120200-001		06/12/98	7670
H8F120200-002		06/12/98	7870
H8F120200-003		06/12/98	7871
H8F120200-004		06/12/98	9028
H8F120200-005		06/12/98	7670
H8F120200-006		06/12/98	7870
H8F120200-007		06/12/98	7871
H8F130129-001		06/13/98	7230
H8F130129-002		06/13/98	7710
H8F130129-003		06/13/98	7750
H8F130129-004		06/13/98	7790
H8F130129-005		06/13/98	7910
H8F130129-006		06/13/98	9030
H8F130129-007		06/13/98	7230
H8F130129-008		06/13/98	7710
H8F130129-009		06/13/98	7750
H8F130129-010		06/13/98	7790
H8F130129-011		06/13/98	7910
H8F150000-178	L	06/09/98	DUPLICATE CHECK
H8F150105-001		06/15/98	7830
H8F150105-002		06/15/98	7950
H8F150105-003		06/15/98	9031
H8F150105-004		06/15/98	7830
H8F150105-005		06/15/98	7950
H8F160000-328	L	06/16/98	DUPLICATE CHECK
H8F160181-005	D	06/16/98	LAB MS/MSD
H8F160181-005	S	06/16/98	LAB MS/MSD
H8F180000-191	L	06/10/98	DUPLICATE CHECK
H8F250000-142	L	06/12/98	DUPLICATE CHECK

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SAMPLE SUMMARY

PB027 : H8F090176

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CHVK6	001	7310	06/08/98	15:00
CHVK7	002	7310	06/08/98	15:00
CHVK8	003	7311	06/08/98	16:00

NOTE(S):

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SAMPLE SUMMARY

PB027 : H8F100194

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CHWHQ	001	7350	06/09/98	15:05
CHWJ3	002	7350	06/09/98	15:05
CHWJ4	003	7430	06/09/98	14:45
CHWJ5	004	9026	06/09/98	14:00

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SAMPLE SUMMARY

PB027 : H8F110182

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CHXK8	001	7470	06/10/98	08:15
CHXK9	002	7510	06/10/98	14:00
CHXKA	003	7590	06/10/98	14:15
CHXKC	004	9027	06/10/98	11:00
CHXKD	005	7470	06/10/98	08:15
CHXKG	006	7510	06/10/98	14:00
CHXKH	007	7590	06/10/98	14:15

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SAMPLE SUMMARY

PB027 : H8F120200

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ0RW	001	7670	06/11/98	09:30
CJ0T0	002	7870	06/11/98	12:00
CJ0T1	003	7871	06/11/98	12:00
CJ0T3	004	9028	06/11/98	11:00
CJ0T4	005	7670	06/11/98	09:30
CJ0T7	006	7870	06/11/98	12:00
CJ0T8	007	7871	06/11/98	12:00

NOTE(S) :

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SAMPLE SUMMARY

PB027 : H8F130129

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ1AQ	001	7230	06/12/98	11:00
CJ1AT	002	7710	06/12/98	14:30
CJ1AV	003	7750	06/12/98	10:00
CJ1AW	004	7790	06/12/98	17:00
CJ1AX	005	7910	06/12/98	08:00
CJ1C0	006	9030	06/12/98	11:00
CJ1C1	007	7230	06/12/98	11:00
CJ1C2	008	7710	06/12/98	14:30
CJ1C3	009	7750	06/12/98	10:00
CJ1C4	010	7790	06/12/98	17:00
CJ1C5	011	7910	06/12/98	08:00

NOTE(S) :

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SAMPLE SUMMARY

PB027 : H8F150105

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ1QG	001	7830	06/13/98	11:00
CJ1QK	002	7950	06/13/98	10:00
CJ1QL	003	9031	06/13/98	11:00
CJ1QM	004	7830	06/13/98	11:00
CJ1QN	005	7950	06/13/98	10:00

NOTE(S) :

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ANALYTICAL METHODS SUMMARY

PB027

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride (Colorimetric, Automated Ferricyanide)	MCAWW 325.2
Dissolved ICP Metals	SW846 6010A
Filterable Residue (TDS)	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate	MCAWW 353.2
Nitrate as N	MCAWW 300.0A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Non-Filterable Residue (TSS)	MCAWW 160.2
Organochlorine Pesticides and PCBs	SW846 8081
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Sulfate	MCAWW 375.4
Total Cyanide	SW846 9010A
Total Hardness (Titrimetric, EDTA)	MCAWW 130.2
Total Organic Carbon	SW846 9060
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Semivolatiles

Internal standard recoveries for samples 7590 and 7310 were outside control limits. However, re-analyses of the samples at a dilution resulted in similar results, indicating that a sample matrix effect is responsible for the internal standard criteria not being met. Both sets of data are reported.

Internal standard recoveries for sample 7830 were outside control limits. However, a prior analysis of the sample at a greater dilution resulted in similar results, indicating that a sample matrix effect is responsible for the internal standard criteria not being met. Since the final run was made at a lesser dilution than the confirming run, and since there were no targets detected which reference this internal standard, only the final analysis are reported.

Internal standard recoveries for samples 7230 and 7790 were outside control limits. However, the sample was originally analyzed at a dilution with acceptable results. Since the final analyses were reported at a lesser dilution, and since there were no compounds detected which reference this internal standard, only the final analyses are reported.

Metals

The batch matrix spike/matrix spike duplicate recoveries were outside control limits for some analytes. However, the laboratory control sample showed acceptable results indicating that the analysis was in control. The batch matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

The serial dilution of sample 7350 was outside control limits due to physical or chemical matrix interferences.

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PROJECT NARRATIVE

Wet Chemistry

Per Kim Napier of IT Corporation, samples 7310 and 7350 were analyzed for nitrate using method 300.0 in order to meet holding time criteria. These samples were also analyzed by requested method 353.2 at a later date. Both sets of data are reported.

COMMENTS:

Volatiles

Samples 7590, 7790, 7230 and 7830 were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis due to foaming; the reporting limits were adjusted accordingly.

The pH of samples 7310, 7590, 7470, 7350, 7790, 7830, 7670, 7750 and 7910 were greater than 2. The sample was analyzed within the normal 14 day holding time. EPA has indicated that some aromatic compounds in wastewater samples, notably benzene, toluene, and ethyl benzene, may be susceptible to biological degradation if samples are not preserved to a pH of 2.

Semivolatiles

Samples 7310, 7590, and 7790 were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

The concentrations of several compounds in sample 7590 and 7310 exceeded the calibration level of the instrument. The sample was analyzed at an appropriate dilution to bring the concentrations of the compounds into the instrument calibration range. The results for both analyses are reported in order to provide the lowest possible reporting limits.

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Quanterra
Environmental Services

PROJECT NARRATIVE

PCBs

Samples 7310, 7590, and 7230 were reported with elevated reporting limits for all analytes due to the difficult sample matrix. The lowest dilutions that could be analyzed was performed; the reporting limits were adjusted accordingly.

Explosives

Samples 7870, 7750, 7790, and 7830 were reported with elevated reporting limits for one or more analytes due to the difficult sample matrix. The lowest dilutions that could be analyzed were performed; the reporting limits were adjusted accordingly.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

GC/MS Volatiles

Lot-Sample #...: H8F090176-001 **Work Order #...:** CHVK6101 **Matrix.....:** WATER
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8166272
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**20**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	**24**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.14 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	**1.8 J**	**5.0**	**ug/L**
Tetrachloroethene	**0.22 J**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.51 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	**0.19 J**	**1.0**	**ug/L**
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.88 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(67 - 128)
1,2-Dichloroethane-d4	113	(67 - 128)
Toluene-d8	97	(71 - 119)
4-Bromofluorobenzene	95	(76 - 111)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

GC/MS Volatiles

Lot-Sample #...: H8F090176-001 **Work Order #...:** CHVK6101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7311

GC/MS Volatiles

Lot-Sample #...: H8F090176-003 **Work Order #...:** CHVK8101 **Matrix.....:** WATER
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8166272
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.24 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.25 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(67 - 128)
1,2-Dichloroethane-d4	107	(67 - 128)
Toluene-d8	98	(71 - 119)
4-Bromofluorobenzene	94	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7311

GC/MS Volatiles

Lot-Sample #...: H8F090176-003 **Work Order #...:** CHVK8101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

GC/MS Volatiles

Lot-Sample #...: H8F100194-001 **Work Order #...:** CHWHQ101 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169191
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**4.0 J,B**	**10**	**ug/L**
Carbon disulfide	**0.26 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.63 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(67 - 130)
1,2-Dichloroethane-d4	113	(67 - 130)
Toluene-d8	115	(70 - 130)
4-Bromofluorobenzene	122	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

GC/MS Volatiles

Lot-Sample #...: H8F100194-001 **Work Order #...:** CHWHQ101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9026

GC/MS Volatiles

Lot-Sample #...: H8F100194-004 **Work Order #...:** CHWJ5101 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169191
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.1 J,B**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.30 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.25 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(67 - 130)
1,2-Dichloroethane-d4	113	(67 - 130)
Toluene-d8	117	(70 - 130)
4-Bromofluorobenzene	122	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 9026

GC/MS Volatiles

Lot-Sample #...: H8F100194-004 **Work Order #...:** CHWJ5101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

GC/MS Volatiles

Lot-Sample #...: H8F110182-001 **Work Order #...:** CHXK8101 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169191
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**4.3 J,B**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.43 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.17 J**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.30 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(67 - 130)
1,2-Dichloroethane-d4	112	(67 - 130)
Toluene-d8	117	(70 - 130)
4-Bromofluorobenzene	122	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

GC/MS Volatiles

Lot-Sample #...: H8F110182-001 **Work Order #...:** CHXK8101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

GC/MS Volatiles

Lot-Sample #...: H8F110182-002 **Work Order #...:** CHXK9101 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169191
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.1 J,B**	**10**	**ug/L**
Carbon disulfide	**0.16 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.16 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.51 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(67 - 130)
1,2-Dichloroethane-d4	111	(67 - 130)
Toluene-d8	116	(70 - 130)
4-Bromofluorobenzene	121	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

GC/MS Volatiles

Lot-Sample #...: H8F110182-002 **Work Order #...:** CHXK9101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

GC/MS Volatiles

Lot-Sample #...: H8F110182-003 **Work Order #...:** CHXKA101 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169191
Dilution Factor: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	20	ug/L
Bromomethane	ND	20	ug/L
Vinyl chloride	ND	20	ug/L
Chloroethane	ND	20	ug/L
Methylene chloride	ND	10	ug/L
Acetone	**17 J,B**	**100**	**ug/L**
Carbon disulfide	ND	10	ug/L
1,1-Dichloroethene	ND	10	ug/L
1,1-Dichloroethane	ND	10	ug/L
1,2-Dichloroethene (total)	ND	10	ug/L
Chloroform	ND	10	ug/L
1,2-Dichloroethane	ND	10	ug/L
2-Butanone	ND	50	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Bromodichloromethane	ND	10	ug/L
1,2-Dichloropropane	ND	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
Trichloroethene	ND	10	ug/L
Dibromochloromethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Benzene	ND	10	ug/L
trans-1,3-Dichloropropene	ND	10	ug/L
Bromoform	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
2-Hexanone	ND	50	ug/L
Tetrachloroethene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
Toluene	ND	10	ug/L
Chlorobenzene	ND	10	ug/L
Ethylbenzene	ND	10	ug/L
Styrene	ND	10	ug/L
Xylenes (total)	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(67 - 130)
1,2-Dichloroethane-d4	114	(67 - 130)
Toluene-d8	116	(70 - 130)
4-Bromofluorobenzene	125	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

GC/MS Volatiles

Lot-Sample #...: H8F110182-003 **Work Order #...:** CHXKA101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9027

GC/MS Volatiles

Lot-Sample #...: H8F110182-004 **Work Order #...:** CHXKC101 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169191
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.5 J,B**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.30 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.31 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(67 - 130)
1,2-Dichloroethane-d4	112	(67 - 130)
Toluene-d8	116	(70 - 130)
4-Bromofluorobenzene	120	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 9027

GC/MS Volatiles

Lot-Sample #...: H8F110182-004 **Work Order #...:** CHXKC101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contaminnation. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

GC/MS Volatiles

Lot-Sample #...: H8F120200-001 **Work Order #...:** CJ0RW101 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/24/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8175132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**5.9 J**	**10**	**ug/L**
Carbon disulfide	**0.16 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**1.9**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 128)
1,2-Dichloroethane-d4	94	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	97	(76 - 111)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

GC/MS Volatiles

Lot-Sample #...: H8F120200-001 **Work Order #...:** CJ0RW101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

GC/MS Volatiles

Lot-Sample #...: H8F120200-002 **Work Order #...:** CJ0T0101 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/24/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8175132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.56 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	93	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	96	(76 - 111)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

GC/MS Volatiles

Lot-Sample #...: H8F120200-002 **Work Order #...:** CJ0T0101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

GC/MS Volatiles

Lot-Sample #...: H8F120200-003 **Work Order #...:** CJ0T1101 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176142
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.9 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.54 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	90	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	95	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

GC/MS Volatiles

Lot-Sample #...: H8F120200-003 Work Order #...: CJ0T1101 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9028

GC/MS Volatiles

Lot-Sample #...: H8F120200-004 **Work Order #...:** CJ0T3101 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176142
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.1 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.25 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.25 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	91	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	96	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 9028

GC/MS Volatiles

Lot-Sample #...: H8F120200-004 **Work Order #...:** CJ0T3101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

GC/MS Volatiles

Lot-Sample #...: H8F130129-001 **Work Order #...:** CJ1AQ101 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170129
Dilution Factor: 2 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	4.0	ug/L
Bromomethane	ND	4.0	ug/L
Vinyl chloride	ND	4.0	ug/L
Chloroethane	ND	4.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**4.3 J**	**20**	**ug/L**
Carbon disulfide	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
1,1-Dichloroethane	ND	2.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	2.0	ug/L
1,2-Dichloroethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Bromodichloromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	2.0	ug/L
cis-1,3-Dichloropropene	ND	2.0	ug/L
Trichloroethene	ND	2.0	ug/L
Dibromochloromethane	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Benzene	ND	2.0	ug/L
trans-1,3-Dichloropropene	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L
Toluene	ND	2.0	ug/L
Chlorobenzene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Styrene	ND	2.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(67 - 130)
1,2-Dichloroethane-d4	113	(67 - 130)
Toluene-d8	116	(70 - 130)
4-Bromofluorobenzene	124	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

GC/MS Volatiles

Lot-Sample #...: H8F130129-001 **Work Order #...:** CJ1AQ101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

GC/MS Volatiles

Lot-Sample #...: H8F130129-002 **Work Order #...:** CJ1AT101 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170129
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.26 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(67 - 130)
1,2-Dichloroethane-d4	110	(67 - 130)
Toluene-d8	118	(70 - 130)
4-Bromofluorobenzene	126	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

GC/MS Volatiles

Lot-Sample #...: H8F130129-002 Work Order #...: CJ1AT101 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

GC/MS Volatiles

Lot-Sample #...: H8F130129-003 **Work Order #...:** CJ1AV101 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170129
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**5.7 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**1.1**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(67 - 130)
1,2-Dichloroethane-d4	111	(67 - 130)
Toluene-d8	117	(70 - 130)
4-Bromofluorobenzene	129	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

GC/MS Volatiles

Lot-Sample #...: H8F130129-003 **Work Order #...:** CJ1AV101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

GC/MS Volatiles

Lot-Sample #...: H8F130129-004 **Work Order #...:** CJ1AW101 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170129
Dilution Factor: 2 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	4.0	ug/L
Bromomethane	ND	4.0	ug/L
Vinyl chloride	ND	4.0	ug/L
Chloroethane	ND	4.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	**4.3 J**	**20**	**ug/L**
Carbon disulfide	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
1,1-Dichloroethane	ND	2.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	2.0	ug/L
1,2-Dichloroethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Bromodichloromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	2.0	ug/L
cis-1,3-Dichloropropene	ND	2.0	ug/L
Trichloroethene	ND	2.0	ug/L
Dibromochloromethane	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Benzene	ND	2.0	ug/L
trans-1,3-Dichloropropene	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L
Toluene	ND	2.0	ug/L
Chlorobenzene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Styrene	ND	2.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(67 - 130)
1,2-Dichloroethane-d4	107	(67 - 130)
Toluene-d8	118	(70 - 130)
4-Bromofluorobenzene	129	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

GC/MS Volatiles

Lot-Sample #...: H8F130129-004 **Work Order #...:** CJ1AW101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

GC/MS Volatiles

Lot-Sample #...: H8F130129-005 **Work Order #...:** CJ1AX101 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170129
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**4.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.37 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(67 - 130)
1,2-Dichloroethane-d4	110	(67 - 130)
Toluene-d8	117	(70 - 130)
4-Bromofluorobenzene	128	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

GC/MS Volatiles

Lot-Sample #...: H8F130129-005 **Work Order #...:** CJ1AX101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9030

GC/MS Volatiles

Lot-Sample #...: H8F130129-006 **Work Order #...:** CJ1C0101 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170129
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.0 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.27 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.32 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(67 - 130)
1,2-Dichloroethane-d4	109	(67 - 130)
Toluene-d8	117	(70 - 130)
4-Bromofluorobenzene	123	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 9030

GC/MS Volatiles

Lot-Sample #...: H8F130129-006 **Work Order #...:** CJ1C0101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

GC/MS Volatiles

Lot-Sample #...: H8F150105-001 **Work Order #...:** CJ1QG101 **Matrix.....:** WATER
Date Sampled...: 06/13/98 **Date Received..:** 06/15/98
Prep Date.....: 06/24/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8175132
Dilution Factor: 2 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	4.0	ug/L
Bromomethane	ND	4.0	ug/L
Vinyl chloride	ND	4.0	ug/L
Chloroethane	ND	4.0	ug/L
Methylene chloride	**0.63 J,B**	**2.0**	**ug/L**
Acetone	**4.6 J**	**20**	**ug/L**
Carbon disulfide	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
1,1-Dichloroethane	ND	2.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	2.0	ug/L
1,2-Dichloroethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Bromodichloromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	2.0	ug/L
cis-1,3-Dichloropropene	ND	2.0	ug/L
Trichloroethene	ND	2.0	ug/L
Dibromochloromethane	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Benzene	ND	2.0	ug/L
trans-1,3-Dichloropropene	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L
Toluene	ND	2.0	ug/L
Chlorobenzene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Styrene	ND	2.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 128)
1,2-Dichloroethane-d4	90	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	98	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

GC/MS Volatiles

Lot-Sample #...: H8F150105-001 **Work Order #...:** CJ1QG101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

GC/MS Volatiles

Lot-Sample #...: H8F150105-002 **Work Order #...:** CJ1QK101 **Matrix.....:** WATER
Date Sampled...: 06/13/98 **Date Received..:** 06/15/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176142
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**5.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.13 J**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.15 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	92	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	95	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

GC/MS Volatiles

Lot-Sample #...: H8F150105-002 **Work Order #...:** CJ1QK101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9031

GC/MS Volatiles

Lot-Sample #...: H8F150105-003 **Work Order #...:** CJ1QL101 **Matrix.....:** WATER
Date Sampled...: 06/13/98 **Date Received..:** 06/15/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.0 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.21 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.20 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 128)
1,2-Dichloroethane-d4	93	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	101	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 9031

GC/MS Volatiles

Lot-Sample #...: H8F150105-003 **Work Order #...:** CJ1QL101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ20M101 **Matrix.....:** WATER
MB Lot-Sample #: H8F150000-272

Prep Date.....: 06/15/98
Analysis Date..: 06/15/98 **Prep Batch #...:** 8166272
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**0.44 J**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(67 - 128)
1,2-Dichloroethane-d4	107	(67 - 128)
Toluene-d8	97	(71 - 119)
4-Bromofluorobenzene	92	(76 - 111)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ20M101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ20M102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F150000-272
Prep Date.....: 06/15/98 **Analysis Date..:** 06/15/98
Prep Batch #...: 8166272
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**111**	**(70 - 137)**	**SW846 8260A**
Benzene	**107**	**(76 - 123)**	**SW846 8260A**
Trichloroethene	**110**	**(75 - 129)**	**SW846 8260A**
Toluene	**101**	**(77 - 115)**	**SW846 8260A**
Chlorobenzene	**104**	**(78 - 116)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(67 - 128)
1,2-Dichloroethane-d4	119	(67 - 128)
Toluene-d8	100	(71 - 119)
4-Bromofluorobenzene	93	(76 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ4F5101 **Matrix.....:** WATER
MB Lot-Sample #: H8F180000-191

Prep Date.....: 06/18/98
Analysis Date..: 06/18/98 **Prep Batch #...:** 8169191
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	**1.5 J**	**10**	**ug/L**	**SW846 8260A**
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(67 - 130)
1,2-Dichloroethane-d4	107	(67 - 130)
Toluene-d8	117	(70 - 130)
4-Bromofluorobenzene	123	(70 - 130)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ4F5101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ4F5102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8F180000-191 CJ4F5103-LCSD
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169191
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**101**	**(70 - 137)**			**SW846 8260A**
	111	**(70 - 137)**	**9.8**	**(0-20)**	**SW846 8260A**
Benzene	**109**	**(70 - 130)**			**SW846 8260A**
	114	**(70 - 130)**	**4.0**	**(0-20)**	**SW846 8260A**
Trichloroethene	**102**	**(70 - 130)**			**SW846 8260A**
	108	**(70 - 130)**	**5.3**	**(0-20)**	**SW846 8260A**
Toluene	**117**	**(70 - 130)**			**SW846 8260A**
	124	**(70 - 130)**	**6.4**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**113**	**(70 - 130)**			**SW846 8260A**
	120	**(70 - 130)**	**6.0**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(67 - 130)
	106	(67 - 130)
1,2-Dichloroethane-d4	106	(67 - 130)
	105	(67 - 130)
Toluene-d8	118	(70 - 130)
	119	(70 - 130)
4-Bromofluorobenzene	110	(70 - 130)
	111	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ594101 **Matrix.....:** WATER
MB Lot-Sample #: H8F190000-129

Prep Date.....: 06/19/98
Analysis Date..: 06/19/98 **Prep Batch #...:** 8170129
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(67 - 130)
1,2-Dichloroethane-d4	113	(67 - 130)
Toluene-d8	117	(70 - 130)
4-Bromofluorobenzene	126	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ594102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F190000-129
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170129
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**112**	**(70 - 137)**	**SW846 8260A**
Benzene	**116**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**111**	**(70 - 130)**	**SW846 8260A**
Toluene	**123**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**120**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(67 - 130)
1,2-Dichloroethane-d4	113	(67 - 130)
Toluene-d8	119	(70 - 130)
4-Bromofluorobenzene	109	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ7VT101 **Matrix.....:** WATER
MB Lot-Sample #: H8F230000-132

Prep Date.....: 06/23/98
Analysis Date..: 06/23/98 **Prep Batch #...:** 8174132
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**0.40 J**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 130)
1,2-Dichloroethane-d4	91	(67 - 130)
Toluene-d8	93	(70 - 130)
4-Bromofluorobenzene	97	(70 - 130)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ7VT101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ7VT102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F230000-132
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**103**	**(70 - 137)**	**SW846 8260A**
Benzene	**105**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**100**	**(70 - 130)**	**SW846 8260A**
Toluene	**106**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**105**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(67 - 130)
1,2-Dichloroethane-d4	91	(67 - 130)
Toluene-d8	93	(70 - 130)
4-Bromofluorobenzene	88	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ92L101 **Matrix.....:** WATER
MB Lot-Sample #: H8F240000-132

Prep Date.....: 06/24/98
Analysis Date..: 06/24/98 **Prep Batch #...:** 8175132
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**0.33 J**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 130)
1,2-Dichloroethane-d4	90	(67 - 130)
Toluene-d8	93	(70 - 130)
4-Bromofluorobenzene	96	(70 - 130)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ92L101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJ92L102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F240000-132
Prep Date.....: 06/24/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8175132
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**99**	**(70 - 137)**	**SW846 8260A**
Benzene	**104**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**97**	**(70 - 130)**	**SW846 8260A**
Toluene	**106**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**103**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(67 - 130)
1,2-Dichloroethane-d4	90	(67 - 130)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	85	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8F120200 **Work Order #...:** CJA7Q101 **Matrix.....:** WATER
MB Lot-Sample #: H8F250000-142

Prep Date.....: 06/25/98
Analysis Date..: 06/25/98 **Prep Batch #...:** 8176142
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**0.41 J**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 130)
1,2-Dichloroethane-d4	88	(67 - 130)
Toluene-d8	92	(70 - 130)
4-Bromofluorobenzene	97	(70 - 130)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8F120200 **Work Order #...:** CJA7Q101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB027 **Work Order #...:** CJA7Q102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8F250000-142 CJA7Q103-LCSD
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176142
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**97**	**(70 - 137)**			**SW846 8260A**
	97	**(70 - 137)**	**0.83**	**(0-20)**	**SW846 8260A**
Benzene	**104**	**(70 - 130)**			**SW846 8260A**
	103	**(70 - 130)**	**1.1**	**(0-20)**	**SW846 8260A**
Trichloroethene	**108**	**(70 - 130)**			**SW846 8260A**
	97	**(70 - 130)**	**11**	**(0-20)**	**SW846 8260A**
Toluene	**105**	**(70 - 130)**			**SW846 8260A**
	105	**(70 - 130)**	**0.030**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**103**	**(70 - 130)**			**SW846 8260A**
	104	**(70 - 130)**	**0.84**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(67 - 130)
	90	(67 - 130)
1,2-Dichloroethane-d4	89	(67 - 130)
	89	(67 - 130)
Toluene-d8	93	(70 - 130)
	93	(70 - 130)
4-Bromofluorobenzene	85	(70 - 130)
	85	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

GC/MS Semivolatiles

Lot-Sample #...: H8F090176-001 **Work Order #...:** CHVK6102 **Matrix.....:** WATER
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/11/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8162210
Dilution Factor: 20 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	200	ug/L
bis(2-Chloroethyl) ether	ND	200	ug/L
2-Chlorophenol	ND	200	ug/L
1,3-Dichlorobenzene	ND	200	ug/L
1,4-Dichlorobenzene	ND	200	ug/L
1,2-Dichlorobenzene	ND	200	ug/L
2-Methylphenol	ND	200	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	200	ug/L
4-Methylphenol	ND	200	ug/L
N-Nitrosodi-n-propylamine	ND	200	ug/L
Hexachloroethane	ND	200	ug/L
Nitrobenzene	ND	200	ug/L
Isophorone	ND	200	ug/L
2-Nitrophenol	ND	200	ug/L
2,4-Dimethylphenol	ND	200	ug/L
bis(2-Chloroethoxy) methane	ND	200	ug/L
2,4-Dichlorophenol	ND	200	ug/L
1,2,4-Trichlorobenzene	ND	200	ug/L
Naphthalene	ND	200	ug/L
4-Chloroaniline	ND	200	ug/L
Hexachlorobutadiene	ND	200	ug/L
4-Chloro-3-methylphenol	ND	200	ug/L
2-Methylnaphthalene	ND	200	ug/L
Hexachlorocyclopentadiene	ND	1000	ug/L
2,4,6-Trichlorophenol	ND	200	ug/L
2,4,5-Trichlorophenol	ND	200	ug/L
2-Chloronaphthalene	ND	200	ug/L
2-Nitroaniline	ND	1000	ug/L
Dimethyl phthalate	ND	200	ug/L
Acenaphthylene	ND	200	ug/L
2,6-Dinitrotoluene	**550**	**200**	**ug/L**
3-Nitroaniline	ND	1000	ug/L
Acenaphthene	ND	200	ug/L
2,4-Dinitrophenol	**4700 E**	**1000**	**ug/L**
4-Nitrophenol	**290 J**	**1000**	**ug/L**
Dibenzofuran	ND	200	ug/L
2,4-Dinitrotoluene	**7400 E**	**200**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

GC/MS Semivolatiles

Lot-Sample #...: H8F090176-001 **Work Order #...:** CHVK6102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	200	ug/L
4-Chlorophenyl phenyl ether	ND	200	ug/L
Fluorene	ND	200	ug/L
4-Nitroaniline	ND	1000	ug/L
4,6-Dinitro-2-methylphenol	**2300**	**1000**	**ug/L**
N-Nitrosodiphenylamine	ND	200	ug/L
4-Bromophenyl phenyl ether	ND	200	ug/L
Hexachlorobenzene	ND	200	ug/L
Pentachlorophenol	ND	1000	ug/L
Phenanthrene	ND	200	ug/L
Anthracene	ND	200	ug/L
Carbazole	ND	200	ug/L
Di-n-butyl phthalate	ND	200	ug/L
Fluoranthene	ND	200	ug/L
Pyrene	ND	200	ug/L
Butyl benzyl phthalate	ND	200	ug/L
3,3'-Dichlorobenzidine	ND	1000	ug/L
Benzo(a)anthracene	ND	200	ug/L
Chrysene	ND	200	ug/L
bis(2-Ethylhexyl) phthalate	ND	200	ug/L
Di-n-octyl phthalate	ND	200	ug/L
Benzo(b)fluoranthene	ND	200	ug/L
Benzo(k)fluoranthene	ND	200	ug/L
Benzo(a)pyrene	ND	200	ug/L
Indeno(1,2,3-cd)pyrene	ND	200	ug/L
Dibenz(a,h)anthracene	ND	200	ug/L
Benzo(ghi)perylene	ND	200	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

GC/MS Semivolatiles

Lot-Sample #...:	H8F090176-001	**Work Order #...:**	CHVK6202	**Matrix.....:**	WATER
Date Sampled...:	06/08/98	**Date Received..:**	06/09/98		
Prep Date.....:	06/11/98	**Analysis Date..:**	07/02/98		
Prep Batch #...:	8162210				
Dilution Factor:	100	**Method.....:**	SW846 8270B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Nitrophenol	**5800 D**	**5000**	**ug/L**
2,4-Dinitrotoluene	**9200 D**	**1000**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

D Result was obtained from the analysis of a dilution.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

GC/MS Semivolatiles

Lot-Sample #...: H8F100194-001 **Work Order #...:** CHWHQ102 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8162210
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

GC/MS Semivolatiles

Lot-Sample #...: H8F100194-001 **Work Order #...:** CHWHQ102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(27 - 106)
Phenol-d5	65	(27 - 111)
Nitrobenzene-d5	75	(37 - 115)
2-Fluorobiphenyl	66	(43 - 116)
2,4,6-Tribromophenol	88	(27 - 127)
Terphenyl-d14	70	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

GC/MS Semivolatiles

Lot-Sample #...: H8F110182-001 **Work Order #...:** CHXK8102 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8166227
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

GC/MS Semivolatiles

Lot-Sample #...: H8F110182-001 **Work Order #...:** CHXK8102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(27 - 106)
Phenol-d5	80	(27 - 111)
Nitrobenzene-d5	78	(37 - 115)
2-Fluorobiphenyl	84	(43 - 116)
2,4,6-Tribromophenol	102	(27 - 127)
Terphenyl-d14	49	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

GC/MS Semivolatiles

Lot-Sample #...: H8F110182-002 **Work Order #...:** CHXK9102 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8166227
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**2.8 J**	**10**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

GC/MS Semivolatiles

Lot-Sample #...: H8F110182-002 **Work Order #...:** CHXK9102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	40	(27 - 106)
Phenol-d5	49	(27 - 111)
Nitrobenzene-d5	51	(37 - 115)
2-Fluorobiphenyl	53	(43 - 116)
2,4,6-Tribromophenol	64	(27 - 127)
Terphenyl-d14	47	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

GC/MS Semivolatiles

Lot-Sample #...: H8F110182-003 **Work Order #...:** CHXKA102 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/15/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8166227
Dilution Factor: 20 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	200	ug/L
bis(2-Chloroethyl) ether	ND	200	ug/L
2-Chlorophenol	ND	200	ug/L
1,3-Dichlorobenzene	ND	200	ug/L
1,4-Dichlorobenzene	ND	200	ug/L
1,2-Dichlorobenzene	ND	200	ug/L
2-Methylphenol	ND	200	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	200	ug/L
4-Methylphenol	ND	200	ug/L
N-Nitrosodi-n-propylamine	ND	200	ug/L
Hexachloroethane	ND	200	ug/L
Nitrobenzene	ND	200	ug/L
Isophorone	ND	200	ug/L
2-Nitrophenol	ND	200	ug/L
2,4-Dimethylphenol	ND	200	ug/L
bis(2-Chloroethoxy) methane	ND	200	ug/L
2,4-Dichlorophenol	ND	200	ug/L
1,2,4-Trichlorobenzene	ND	200	ug/L
Naphthalene	ND	200	ug/L
4-Chloroaniline	ND	200	ug/L
Hexachlorobutadiene	ND	200	ug/L
4-Chloro-3-methylphenol	ND	200	ug/L
2-Methylnaphthalene	ND	200	ug/L
Hexachlorocyclopentadiene	ND	1000	ug/L
2,4,6-Trichlorophenol	ND	200	ug/L
2,4,5-Trichlorophenol	ND	200	ug/L
2-Chloronaphthalene	ND	200	ug/L
2-Nitroaniline	ND	1000	ug/L
Dimethyl phthalate	ND	200	ug/L
Acenaphthylene	ND	200	ug/L
2,6-Dinitrotoluene	**390**	**200**	**ug/L**
3-Nitroaniline	ND	1000	ug/L
Acenaphthene	ND	200	ug/L
2,4-Dinitrophenol	**4000 E**	**1000**	**ug/L**
4-Nitrophenol	**210 J**	**1000**	**ug/L**
Dibenzofuran	ND	200	ug/L
2,4-Dinitrotoluene	**3400 E**	**200**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

GC/MS Semivolatiles

Lot-Sample #...: H8F110182-003 **Work Order #...:** CHXKA102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	200	ug/L
4-Chlorophenyl phenyl ether	ND	200	ug/L
Fluorene	ND	200	ug/L
4-Nitroaniline	ND	1000	ug/L
4,6-Dinitro-2-methylphenol	**1700**	**1000**	**ug/L**
N-Nitrosodiphenylamine	ND	200	ug/L
4-Bromophenyl phenyl ether	ND	200	ug/L
Hexachlorobenzene	ND	200	ug/L
Pentachlorophenol	ND	1000	ug/L
Phenanthrene	ND	200	ug/L
Anthracene	ND	200	ug/L
Carbazole	ND	200	ug/L
Di-n-butyl phthalate	ND	200	ug/L
Fluoranthene	ND	200	ug/L
Pyrene	ND	200	ug/L
Butyl benzyl phthalate	ND	200	ug/L
3,3'-Dichlorobenzidine	ND	1000	ug/L
Benzo(a)anthracene	ND	200	ug/L
Chrysene	ND	200	ug/L
bis(2-Ethylhexyl) phthalate	ND	200	ug/L
Di-n-octyl phthalate	ND	200	ug/L
Benzo(b)fluoranthene	ND	200	ug/L
Benzo(k)fluoranthene	ND	200	ug/L
Benzo(a)pyrene	ND	200	ug/L
Indeno(1,2,3-cd)pyrene	ND	200	ug/L
Dibenz(a,h)anthracene	ND	200	ug/L
Benzo(ghi)perylene	ND	200	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

GC/MS Semivolatiles

Lot-Sample #...: H8F110182-003 **Work Order #...:** CHXKA202 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/15/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8166227
Dilution Factor: 60 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrophenol	**5900 D**	**3000**	**ug/L**
2,4-Dinitrotoluene	**4100 D**	**600**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

D Result was obtained from the analysis of a dilution.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

GC/MS Semivolatiles

Lot-Sample #...: H8F120200-001 **Work Order #...:** CJ0RW102 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8166227
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

GC/MS Semivolatiles

Lot-Sample #...: H8F120200-001 **Work Order #...:** CJ0RW102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**10**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	54	(27 - 106)
Phenol-d5	66	(27 - 111)
Nitrobenzene-d5	66	(37 - 115)
2-Fluorobiphenyl	63	(43 - 116)
2,4,6-Tribromophenol	84	(27 - 127)
Terphenyl-d14	34	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

GC/MS Semivolatiles

Lot-Sample #...: H8F120200-002 **Work Order #...:** CJ0T0102 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8166227
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**1.5 J**	**10**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

GC/MS Semivolatiles

Lot-Sample #...: H8F120200-002 **Work Order #...:** CJ0T0102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	33	(27 - 106)
Phenol-d5	44	(27 - 111)
Nitrobenzene-d5	51	(37 - 115)
2-Fluorobiphenyl	51	(43 - 116)
2,4,6-Tribromophenol	58	(27 - 127)
Terphenyl-d14	65	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

GC/MS Semivolatiles

Lot-Sample #...: H8F120200-003 **Work Order #...:** CJ0T1102 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8166227
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**2.4 J**	**10**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

GC/MS Semivolatiles

Lot-Sample #...: H8F120200-003 **Work Order #...:** CJ0T1102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	47	(27 - 106)
Phenol-d5	59	(27 - 111)
Nitrobenzene-d5	62	(37 - 115)
2-Fluorobiphenyl	63	(43 - 116)
2,4,6-Tribromophenol	86	(27 - 127)
Terphenyl-d14	82	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-001 **Work Order #...:** CJ1AQ102 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	**3.2 J**	**50**	**ug/L**
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	**3.3 J**	**10**	**ug/L**
3-Nitroaniline	**88**	**50**	**ug/L**
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	**8.3 J**	**50**	**ug/L**
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**20**	**10**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-001 **Work Order #...:** CJ1AQ102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(27 - 106)
Phenol-d5	71	(27 - 111)
Nitrobenzene-d5	80	(37 - 115)
2-Fluorobiphenyl	73	(43 - 116)
2,4,6-Tribromophenol	92	(27 - 127)
Terphenyl-d14	35	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-002 **Work Order #...:** CJ1AT102 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-002 **Work Order #...:** CJ1AT102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	42	(27 - 106)
Phenol-d5	49	(27 - 111)
Nitrobenzene-d5	51	(37 - 115)
2-Fluorobiphenyl	49	(43 - 116)
2,4,6-Tribromophenol	67	(27 - 127)
Terphenyl-d14	54	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-003 **Work Order #...:** CJ1AV102 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	13	ug/L
bis(2-Chloroethyl) ether	ND	13	ug/L
2-Chlorophenol	ND	13	ug/L
1,3-Dichlorobenzene	ND	13	ug/L
1,4-Dichlorobenzene	ND	13	ug/L
1,2-Dichlorobenzene	ND	13	ug/L
2-Methylphenol	ND	13	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	13	ug/L
4-Methylphenol	ND	13	ug/L
N-Nitrosodi-n-propylamine	ND	13	ug/L
Hexachloroethane	ND	13	ug/L
Nitrobenzene	ND	13	ug/L
Isophorone	ND	13	ug/L
2-Nitrophenol	ND	13	ug/L
2,4-Dimethylphenol	ND	13	ug/L
bis(2-Chloroethoxy) methane	ND	13	ug/L
2,4-Dichlorophenol	ND	13	ug/L
1,2,4-Trichlorobenzene	ND	13	ug/L
Naphthalene	ND	13	ug/L
4-Chloroaniline	ND	13	ug/L
Hexachlorobutadiene	ND	13	ug/L
4-Chloro-3-methylphenol	ND	13	ug/L
2-Methylnaphthalene	ND	13	ug/L
Hexachlorocyclopentadiene	ND	64	ug/L
2,4,6-Trichlorophenol	ND	13	ug/L
2,4,5-Trichlorophenol	ND	13	ug/L
2-Chloronaphthalene	ND	13	ug/L
2-Nitroaniline	ND	64	ug/L
Dimethyl phthalate	ND	13	ug/L
Acenaphthylene	ND	13	ug/L
2,6-Dinitrotoluene	ND	13	ug/L
3-Nitroaniline	ND	64	ug/L
Acenaphthene	ND	13	ug/L
2,4-Dinitrophenol	ND	64	ug/L
4-Nitrophenol	ND	64	ug/L
Dibenzofuran	ND	13	ug/L
2,4-Dinitrotoluene	**2.5 J**	**13**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-003 **Work Order #...:** CJ1AV102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	13	ug/L
4-Chlorophenyl phenyl ether	ND	13	ug/L
Fluorene	ND	13	ug/L
4-Nitroaniline	ND	64	ug/L
4,6-Dinitro-2-methylphenol	ND	64	ug/L
N-Nitrosodiphenylamine	ND	13	ug/L
4-Bromophenyl phenyl ether	ND	13	ug/L
Hexachlorobenzene	ND	13	ug/L
Pentachlorophenol	ND	64	ug/L
Phenanthrene	ND	13	ug/L
Anthracene	ND	13	ug/L
Carbazole	ND	13	ug/L
Di-n-butyl phthalate	ND	13	ug/L
Fluoranthene	ND	13	ug/L
Pyrene	ND	13	ug/L
Butyl benzyl phthalate	ND	13	ug/L
3,3'-Dichlorobenzidine	ND	64	ug/L
Benzo(a)anthracene	ND	13	ug/L
Chrysene	ND	13	ug/L
bis(2-Ethylhexyl) phthalate	**3.2 J**	**13**	**ug/L**
Di-n-octyl phthalate	ND	13	ug/L
Benzo(b)fluoranthene	ND	13	ug/L
Benzo(k)fluoranthene	ND	13	ug/L
Benzo(a)pyrene	ND	13	ug/L
Indeno(1,2,3-cd)pyrene	ND	13	ug/L
Dibenz(a,h)anthracene	ND	13	ug/L
Benzo(ghi)perylene	ND	13	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	50	(27 - 106)
Phenol-d5	64	(27 - 111)
Nitrobenzene-d5	75	(37 - 115)
2-Fluorobiphenyl	67	(43 - 116)
2,4,6-Tribromophenol	68	(27 - 127)
Terphenyl-d14	58	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-004 **Work Order #...:** CJ1AW102 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 20 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	200	ug/L
bis(2-Chloroethyl) ether	ND	200	ug/L
2-Chlorophenol	ND	200	ug/L
1,3-Dichlorobenzene	ND	200	ug/L
1,4-Dichlorobenzene	ND	200	ug/L
1,2-Dichlorobenzene	ND	200	ug/L
2-Methylphenol	ND	200	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	200	ug/L
4-Methylphenol	ND	200	ug/L
N-Nitrosodi-n-propylamine	ND	200	ug/L
Hexachloroethane	ND	200	ug/L
Nitrobenzene	ND	200	ug/L
Isophorone	ND	200	ug/L
2-Nitrophenol	ND	200	ug/L
2,4-Dimethylphenol	ND	200	ug/L
bis(2-Chloroethoxy) methane	ND	200	ug/L
2,4-Dichlorophenol	ND	200	ug/L
1,2,4-Trichlorobenzene	ND	200	ug/L
Naphthalene	ND	200	ug/L
4-Chloroaniline	ND	200	ug/L
Hexachlorobutadiene	ND	200	ug/L
4-Chloro-3-methylphenol	ND	200	ug/L
2-Methylnaphthalene	ND	200	ug/L
Hexachlorocyclopentadiene	ND	1000	ug/L
2,4,6-Trichlorophenol	ND	200	ug/L
2,4,5-Trichlorophenol	ND	200	ug/L
2-Chloronaphthalene	ND	200	ug/L
2-Nitroaniline	ND	1000	ug/L
Dimethyl phthalate	ND	200	ug/L
Acenaphthylene	ND	200	ug/L
2,6-Dinitrotoluene	ND	200	ug/L
3-Nitroaniline	ND	1000	ug/L
Acenaphthene	ND	200	ug/L
2,4-Dinitrophenol	ND	1000	ug/L
4-Nitrophenol	ND	1000	ug/L
Dibenzofuran	ND	200	ug/L
2,4-Dinitrotoluene	**80 J**	**200**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-004 **Work Order #...:** CJ1AW102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	200	ug/L
4-Chlorophenyl phenyl ether	ND	200	ug/L
Fluorene	ND	200	ug/L
4-Nitroaniline	ND	1000	ug/L
4,6-Dinitro-2-methylphenol	**830 J**	**1000**	**ug/L**
N-Nitrosodiphenylamine	ND	200	ug/L
4-Bromophenyl phenyl ether	ND	200	ug/L
Hexachlorobenzene	ND	200	ug/L
Pentachlorophenol	ND	1000	ug/L
Phenanthrene	ND	200	ug/L
Anthracene	ND	200	ug/L
Carbazole	ND	200	ug/L
Di-n-butyl phthalate	ND	200	ug/L
Fluoranthene	ND	200	ug/L
Pyrene	ND	200	ug/L
Butyl benzyl phthalate	ND	200	ug/L
3,3'-Dichlorobenzidine	ND	1000	ug/L
Benzo(a)anthracene	ND	200	ug/L
Chrysene	ND	200	ug/L
bis(2-Ethylhexyl) phthalate	ND	200	ug/L
Di-n-octyl phthalate	ND	200	ug/L
Benzo(b)fluoranthene	ND	200	ug/L
Benzo(k)fluoranthene	ND	200	ug/L
Benzo(a)pyrene	ND	200	ug/L
Indeno(1,2,3-cd)pyrene	ND	200	ug/L
Dibenz(a,h)anthracene	ND	200	ug/L
Benzo(ghi)perylene	ND	200	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-005 **Work Order #...:** CJ1AX102 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	13	ug/L
bis(2-Chloroethyl) ether	ND	13	ug/L
2-Chlorophenol	ND	13	ug/L
1,3-Dichlorobenzene	ND	13	ug/L
1,4-Dichlorobenzene	ND	13	ug/L
1,2-Dichlorobenzene	ND	13	ug/L
2-Methylphenol	ND	13	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	13	ug/L
4-Methylphenol	ND	13	ug/L
N-Nitrosodi-n-propylamine	ND	13	ug/L
Hexachloroethane	ND	13	ug/L
Nitrobenzene	ND	13	ug/L
Isophorone	ND	13	ug/L
2-Nitrophenol	ND	13	ug/L
2,4-Dimethylphenol	ND	13	ug/L
bis(2-Chloroethoxy) methane	ND	13	ug/L
2,4-Dichlorophenol	ND	13	ug/L
1,2,4-Trichlorobenzene	ND	13	ug/L
Naphthalene	ND	13	ug/L
4-Chloroaniline	ND	13	ug/L
Hexachlorobutadiene	ND	13	ug/L
4-Chloro-3-methylphenol	ND	13	ug/L
2-Methylnaphthalene	ND	13	ug/L
Hexachlorocyclopentadiene	ND	64	ug/L
2,4,6-Trichlorophenol	ND	13	ug/L
2,4,5-Trichlorophenol	ND	13	ug/L
2-Chloronaphthalene	ND	13	ug/L
2-Nitroaniline	ND	64	ug/L
Dimethyl phthalate	ND	13	ug/L
Acenaphthylene	ND	13	ug/L
2,6-Dinitrotoluene	ND	13	ug/L
3-Nitroaniline	ND	64	ug/L
Acenaphthene	ND	13	ug/L
2,4-Dinitrophenol	ND	64	ug/L
4-Nitrophenol	ND	64	ug/L
Dibenzofuran	ND	13	ug/L
2,4-Dinitrotoluene	ND	13	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

GC/MS Semivolatiles

Lot-Sample #...: H8F130129-005 Work Order #...: CJ1AX102 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	13	ug/L
4-Chlorophenyl phenyl ether	ND	13	ug/L
Fluorene	ND	13	ug/L
4-Nitroaniline	ND	64	ug/L
4,6-Dinitro-2-methylphenol	ND	64	ug/L
N-Nitrosodiphenylamine	ND	13	ug/L
4-Bromophenyl phenyl ether	ND	13	ug/L
Hexachlorobenzene	ND	13	ug/L
Pentachlorophenol	ND	64	ug/L
Phenanthrene	ND	13	ug/L
Anthracene	ND	13	ug/L
Carbazole	ND	13	ug/L
Di-n-butyl phthalate	ND	13	ug/L
Fluoranthene	ND	13	ug/L
Pyrene	ND	13	ug/L
Butyl benzyl phthalate	ND	13	ug/L
3,3'-Dichlorobenzidine	ND	64	ug/L
Benzo(a)anthracene	ND	13	ug/L
Chrysene	ND	13	ug/L
bis(2-Ethylhexyl) phthalate	ND	13	ug/L
Di-n-octyl phthalate	ND	13	ug/L
Benzo(b)fluoranthene	ND	13	ug/L
Benzo(k)fluoranthene	ND	13	ug/L
Benzo(a)pyrene	ND	13	ug/L
Indeno(1,2,3-cd)pyrene	ND	13	ug/L
Dibenz(a,h)anthracene	ND	13	ug/L
Benzo(ghi)perylene	ND	13	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(27 - 106)
Phenol-d5	64	(27 - 111)
Nitrobenzene-d5	69	(37 - 115)
2-Fluorobiphenyl	67	(43 - 116)
2,4,6-Tribromophenol	82	(27 - 127)
Terphenyl-d14	57	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

GC/MS Semivolatiles

Lot-Sample #...: H8F150105-001 **Work Order #...:** CJ1QG102 **Matrix.....:** WATER
Date Sampled...: 06/13/98 **Date Received..:** 06/15/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	**2.1 J**	**10**	**ug/L**
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	**1.3 J**	**50**	**ug/L**
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	**6.2 J**	**10**	**ug/L**
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	**22 J**	**50**	**ug/L**
4-Nitrophenol	**5.0 J**	**50**	**ug/L**
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**35**	**10**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

GC/MS Semivolatiles

Lot-Sample #...: H8F150105-001 **Work Order #...:** CJ1QG102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	54	(27 - 106)
Phenol-d5	66	(27 - 111)
Nitrobenzene-d5	76	(37 - 115)
2-Fluorobiphenyl	75	(43 - 116)
2,4,6-Tribromophenol	95	(27 - 127)
Terphenyl-d14	43	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

GC/MS Semivolatiles

Lot-Sample #...: H8F150105-002 **Work Order #...:** CJ1QK102 **Matrix.....:** WATER
Date Sampled...: 06/13/98 **Date Received..:** 06/15/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**2.3 J**	**10**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

GC/MS Semivolatiles

Lot-Sample #...: H8F150105-002 **Work Order #...:** CJ1QK102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	54	(27 - 106)
Phenol-d5	65	(27 - 111)
Nitrobenzene-d5	70	(37 - 115)
2-Fluorobiphenyl	67	(43 - 116)
2,4,6-Tribromophenol	81	(27 - 127)
Terphenyl-d14	40	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CHX33101 **Matrix.....:** WATER
MB Lot-Sample #: H8F110000-210

Prep Date.....: 06/11/98
Analysis Date..: 06/23/98 **Prep Batch #...:** 8162210
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
Acenaphthene	ND	10	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CHX33101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	10	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(27 - 106)
Phenol-d5	68	(27 - 111)
Nitrobenzene-d5	80	(37 - 115)
2-Fluorobiphenyl	72	(43 - 116)
2,4,6-Tribromophenol	89	(27 - 127)
Terphenyl-d14	93	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CHRWF105-MS **Matrix.....:** WATER
MS Lot-Sample #: H8F060144-002 CHRWF106-MSD
Date Sampled...: 06/04/98 **Date Received..:** 06/06/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8162210
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**73**	**(16 - 116)**			**SW846 8270B**
	71	**(16 - 116)**	**1.8**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**81**	**(31 - 109)**			**SW846 8270B**
	76	**(31 - 109)**	**7.1**	**(0-20)**	**SW846 8270B**
1,4-Dichlorobenzene	**64**	**(40 - 100)**			**SW846 8270B**
	60	**(40 - 100)**	**6.0**	**(0-26)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**66**	**(22 - 125)**			**SW846 8270B**
	60	**(22 - 125)**	**8.8**	**(0-27)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**69**	**(43 - 100)**			**SW846 8270B**
	64	**(43 - 100)**	**7.6**	**(0-29)**	**SW846 8270B**
4-Chloro-3-methylphenol	**79**	**(48 - 110)**			**SW846 8270B**
	79	**(48 - 110)**	**0.79**	**(0-20)**	**SW846 8270B**
Acenaphthene	**75**	**(54 - 113)**			**SW846 8270B**
	72	**(54 - 113)**	**4.6**	**(0-20)**	**SW846 8270B**
4-Nitrophenol	**65**	**(13 - 135)**			**SW846 8270B**
	75	**(13 - 135)**	**14**	**(0-21)**	**SW846 8270B**
2,4-Dinitrotoluene	**84**	**(59 - 120)**			**SW846 8270B**
	80	**(59 - 120)**	**4.7**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**80**	**(20 - 133)**			**SW846 8270B**
	76	**(20 - 133)**	**4.8**	**(0-31)**	**SW846 8270B**
Pyrene	**75**	**(46 - 122)**			**SW846 8270B**
	71	**(46 - 122)**	**5.2**	**(0-26)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(27 - 106)
	61	(27 - 106)
Phenol-d5	49	(27 - 111)
	69	(27 - 111)
Nitrobenzene-d5	77	(37 - 115)
	70	(37 - 115)
2-Fluorobiphenyl	74	(43 - 116)
	69	(43 - 116)
2,4,6-Tribromophenol	84	(27 - 127)
	85	(27 - 127)
Terphenyl-d14	74	(33 - 141)
	74	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CHX33102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F110000-210
Prep Date.....: 06/11/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8162210
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**65**	**(28 - 113)**	**SW846 8270B**
2-Chlorophenol	**69**	**(52 - 103)**	**SW846 8270B**
1,4-Dichlorobenzene	**60**	**(40 - 100)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**66**	**(22 - 125)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**73**	**(49 - 100)**	**SW846 8270B**
4-Chloro-3-methylphenol	**78**	**(54 - 110)**	**SW846 8270B**
Acenaphthene	**75**	**(58 - 113)**	**SW846 8270B**
4-Nitrophenol	**76**	**(18 - 135)**	**SW846 8270B**
2,4-Dinitrotoluene	**88**	**(59 - 120)**	**SW846 8270B**
Pentachlorophenol	**66**	**(20 - 123)**	**SW846 8270B**
Pyrene	**79**	**(54 - 122)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	57	(27 - 106)
Phenol-d5	67	(27 - 111)
Nitrobenzene-d5	82	(37 - 115)
2-Fluorobiphenyl	78	(43 - 116)
2,4,6-Tribromophenol	92	(27 - 127)
Terphenyl-d14	89	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CJ1VA101 **Matrix.....:** WATER
MB Lot-Sample #: H8F150000-227

Prep Date.....: 06/15/98
Analysis Date..: 06/26/98 **Prep Batch #...:** 8166227
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
Acenaphthene	ND	10	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CJ1VA101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	10	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(27 - 106)
Phenol-d5	74	(27 - 111)
Nitrobenzene-d5	82	(37 - 115)
2-Fluorobiphenyl	75	(43 - 116)
2,4,6-Tribromophenol	95	(27 - 127)
Terphenyl-d14	82	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CJ1VA102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F150000-227
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166227
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**78**	**(28 - 113)**	**SW846 8270B**
2-Chlorophenol	**83**	**(52 - 103)**	**SW846 8270B**
1,4-Dichlorobenzene	**65**	**(40 - 100)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**84**	**(22 - 125)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**78**	**(49 - 100)**	**SW846 8270B**
4-Chloro-3-methylphenol	**95**	**(54 - 110)**	**SW846 8270B**
Acenaphthene	**86**	**(58 - 113)**	**SW846 8270B**
4-Nitrophenol	**114**	**(18 - 135)**	**SW846 8270B**
2,4-Dinitrotoluene	**95**	**(59 - 120)**	**SW846 8270B**
Pentachlorophenol	**81**	**(20 - 123)**	**SW846 8270B**
Pyrene	**90**	**(54 - 122)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(27 - 106)
Phenol-d5	78	(27 - 111)
Nitrobenzene-d5	83	(37 - 115)
2-Fluorobiphenyl	79	(43 - 116)
2,4,6-Tribromophenol	109	(27 - 127)
Terphenyl-d14	97	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CJ39H101 **Matrix.....:** WATER
MB Lot-Sample #: H8F170000-161

Prep Date.....: 06/17/98
Analysis Date..: 07/01/98 **Prep Batch #...:** 8168161
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
Acenaphthene	ND	10	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CJ39H101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	10	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(27 - 106)
Phenol-d5	66	(27 - 111)
Nitrobenzene-d5	76	(37 - 115)
2-Fluorobiphenyl	76	(43 - 116)
2,4,6-Tribromophenol	77	(27 - 127)
Terphenyl-d14	85	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CJ39H102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F170000-161
Prep Date.....: 06/17/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8168161
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**71**	**(28 - 113)**	**SW846 8270B**
2-Chlorophenol	**79**	**(52 - 103)**	**SW846 8270B**
1,4-Dichlorobenzene	**69**	**(40 - 100)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**77**	**(22 - 125)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**83**	**(49 - 100)**	**SW846 8270B**
4-Chloro-3-methylphenol	**82**	**(54 - 110)**	**SW846 8270B**
Acenaphthene	**86**	**(58 - 113)**	**SW846 8270B**
4-Nitrophenol	**74**	**(18 - 135)**	**SW846 8270B**
2,4-Dinitrotoluene	**97**	**(59 - 120)**	**SW846 8270B**
Pentachlorophenol	**92**	**(20 - 123)**	**SW846 8270B**
Pyrene	**98**	**(54 - 122)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(27 - 106)
Phenol-d5	73	(27 - 111)
Nitrobenzene-d5	78	(37 - 115)
2-Fluorobiphenyl	73	(43 - 116)
2,4,6-Tribromophenol	91	(27 - 127)
Terphenyl-d14	95	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

GC Semivolatiles

Lot-Sample #...: H8F090176-001 **Work Order #...:** CHVK6103 **Matrix.....:** WATER
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/15/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8166178
Dilution Factor: 200 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	200	ug/L
Aroclor 1221	ND	200	ug/L
Aroclor 1232	ND	200	ug/L
Aroclor 1242	ND	200	ug/L
Aroclor 1248	ND	200	ug/L
Aroclor 1254	ND	200	ug/L
Aroclor 1260	ND	200	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(30 - 133)
Decachlorobiphenyl	NC,DIL	(30 - 139)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

GC Semivolatiles

Lot-Sample #...: H8F100194-001 **Work Order #...:** CHWHQ103 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166178
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(30 - 133)
Decachlorobiphenyl	33	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

GC Semivolatiles

Lot-Sample #...: H8F110182-003 **Work Order #...:** CHXKA103 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/15/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8166178
Dilution Factor: 200 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	200	ug/L
Aroclor 1221	ND	200	ug/L
Aroclor 1232	ND	200	ug/L
Aroclor 1242	ND	200	ug/L
Aroclor 1248	ND	200	ug/L
Aroclor 1254	ND	200	ug/L
Aroclor 1260	ND	200	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(30 - 133)
Decachlorobiphenyl	NC,DIL	(30 - 139)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

GC Semivolatiles

Lot-Sample #...: H8F120200-001 **Work Order #...:** CJ0RW103 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/15/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8166178
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	65	(30 - 133)
Decachlorobiphenyl	31	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

GC Semivolatiles

Lot-Sample #...: H8F120200-002 **Work Order #...:** CJ0T0103 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166178
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(30 - 133)
Decachlorobiphenyl	67	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

GC Semivolatiles

Lot-Sample #...: H8F120200-003 **Work Order #...:** CJ0T1103 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166178
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	103	(30 - 133)
Decachlorobiphenyl	47	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

GC Semivolatiles

Lot-Sample #...: H8F130129-001 **Work Order #...:** CJ1AQ103 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/15/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8166178
Dilution Factor: 10 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	10	ug/L
Aroclor 1221	ND	10	ug/L
Aroclor 1232	ND	10	ug/L
Aroclor 1242	ND	10	ug/L
Aroclor 1248	ND	10	ug/L
Aroclor 1254	ND	10	ug/L
Aroclor 1260	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(30 - 133)
Decachlorobiphenyl	NC,DIL	(30 - 139)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

GC Semivolatiles

Lot-Sample #...: H8F130129-002 **Work Order #...:** CJ1AT103 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166178
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(30 - 133)
Decachlorobiphenyl	41	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

GC Semivolatiles

Lot-Sample #...: H8F130129-003 **Work Order #...:** CJ1AV103 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166178
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	57	(30 - 133)
Decachlorobiphenyl	44	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

GC Semivolatiles

Lot-Sample #...: H8F130129-004 **Work Order #...:** CJ1AW103 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166178
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(30 - 133)
Decachlorobiphenyl	38	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

GC Semivolatiles

Lot-Sample #...: H8F130129-005 **Work Order #...:** CJ1AX103 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166178
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	110	(30 - 133)
Decachlorobiphenyl	39	(30 - 139)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CJ1P0101 **Matrix.....:** WATER
MB Lot-Sample #: H8F150000-178

Prep Date.....: 06/15/98
Analysis Date..: 06/26/98 **Prep Batch #...:** 8166178
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8081
Aroclor 1221	ND	1.0	ug/L	SW846 8081
Aroclor 1232	ND	1.0	ug/L	SW846 8081
Aroclor 1242	ND	1.0	ug/L	SW846 8081
Aroclor 1248	ND	1.0	ug/L	SW846 8081
Aroclor 1254	ND	1.0	ug/L	SW846 8081
Aroclor 1260	ND	1.0	ug/L	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(30 - 133)
Decachlorobiphenyl	85	(30 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB027 **Work Order #...:** CJ1P0102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8F150000-178 CJ1P0103-LCSD
Prep Date.....: 06/15/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8166178
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**118**	**(70 - 158)**			**SW846 8081**
	112	**(70 - 158)**	**6.0**	**(0-25)**	**SW846 8081**
Aroclor 1260	**105**	**(70 - 158)**			**SW846 8081**
	99	**(70 - 158)**	**5.6**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	98	(30 - 133)
	89	(30 - 133)
Decachlorobiphenyl	100	(30 - 139)
	81	(30 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

HPLC

Lot-Sample #...: H8F090176-001 **Work Order #...:** CHVK6104 **Matrix.....:** WATER
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8162289
Dilution Factor: 5000 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	1000	ug/L
1,3-Dinitrobenzene	**4800**	**1000**	**ug/L**
2,4-Dinitrotoluene	**6800**	**1000**	**ug/L**
2,6-Dinitrotoluene	ND	1000	ug/L
HMX	ND	2500	ug/L
Nitrobenzene	ND	1000	ug/L
2-Nitrotoluene	ND	1000	ug/L
3-Nitrotoluene	ND	1000	ug/L
RDX	ND	2500	ug/L
Tetryl	ND	1000	ug/L
1,3,5-Trinitrobenzene	ND	1000	ug/L
2,4,6-Trinitrotoluene	ND	1000	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

HPLC

Lot-Sample #...: H8F100194-001 **Work Order #...:** CHWHQ104 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8162289
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**0.28**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**0.47**	**0.20**	**ug/L**
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	81	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7430

HPLC

Lot-Sample #...:	H8F100194-003	**Work Order #...:**	CHWJ4101	**Matrix.....:**	WATER
Date Sampled...:	06/09/98	**Date Received..:**	06/10/98		
Prep Date.....:	06/11/98	**Analysis Date..:**	06/26/98		
Prep Batch #...:	8162289				
Dilution Factor:	10	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	2.0	ug/L
1,3-Dinitrobenzene	**10**	**2.0**	**ug/L**
2,4-Dinitrotoluene	**31**	**2.0**	**ug/L**
2,6-Dinitrotoluene	**5.1**	**2.0**	**ug/L**
HMX	ND	5.0	ug/L
Nitrobenzene	ND	2.0	ug/L
2-Nitrotoluene	ND	2.0	ug/L
3-Nitrotoluene	ND	2.0	ug/L
RDX	ND	5.0	ug/L
Tetryl	ND	2.0	ug/L
1,3,5-Trinitrobenzene	ND	2.0	ug/L
2,4,6-Trinitrotoluene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

HPLC

Lot-Sample #...: H8F110182-001 **Work Order #...:** CHXK8103 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8162289
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**0.42**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**0.82**	**0.20**	**ug/L**
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

HPLC

Lot-Sample #...: H8F110182-002 **Work Order #...:** CHXK9103 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8162289
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**1.2**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**1.4**	**0.20**	**ug/L**
2,6-Dinitrotoluene	**0.28**	**0.20**	**ug/L**
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	89	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

HPLC

Lot-Sample #...:	H8F110182-003	**Work Order #...:**	CHXKA104	**Matrix.....:**	WATER
Date Sampled...:	06/10/98	**Date Received..:**	06/11/98		
Prep Date.....:	06/11/98	**Analysis Date..:**	06/19/98		
Prep Batch #...:	8162289				
Dilution Factor:	1000	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	200	ug/L
1,3-Dinitrobenzene	**2100**	**200**	**ug/L**
2,4-Dinitrotoluene	**2200**	**200**	**ug/L**
2,6-Dinitrotoluene	**400**	**200**	**ug/L**
HMX	ND	500	ug/L
Nitrobenzene	ND	200	ug/L
2-Nitrotoluene	ND	200	ug/L
3-Nitrotoluene	ND	200	ug/L
RDX	ND	500	ug/L
Tetryl	ND	200	ug/L
1,3,5-Trinitrobenzene	ND	200	ug/L
2,4,6-Trinitrotoluene	ND	200	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

HPLC

Lot-Sample #...: H8F120200-001 **Work Order #...:** CJ0RW104 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8167328
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**1.3**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**2.3**	**0.20**	**ug/L**
2,6-Dinitrotoluene	**0.35**	**0.20**	**ug/L**
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

HPLC

Lot-Sample #...: H8F130129-001 **Work Order #...:** CJ1AQ104 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8167328
Dilution Factor: 50 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	10	ug/L
1,3-Dinitrobenzene	ND	10	ug/L
2,4-Dinitrotoluene	**10**	**10**	**ug/L**
2,6-Dinitrotoluene	ND	10	ug/L
HMX	ND	25	ug/L
Nitrobenzene	ND	10	ug/L
2-Nitrotoluene	ND	10	ug/L
3-Nitrotoluene	ND	10	ug/L
RDX	ND	25	ug/L
Tetryl	ND	10	ug/L
1,3,5-Trinitrobenzene	ND	10	ug/L
2,4,6-Trinitrotoluene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

HPLC

Lot-Sample #...:	H8F120200-002	**Work Order #...:**	CJ0T0104	**Matrix.....:**	WATER
Date Sampled...:	06/11/98	**Date Received..:**	06/12/98		
Prep Date.....:	06/16/98	**Analysis Date..:**	06/19/98		
Prep Batch #...:	8167328				
Dilution Factor:	5	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	1.0	ug/L
1,3-Dinitrobenzene	**6.4**	**1.0**	**ug/L**
2,4-Dinitrotoluene	**8.9**	**1.0**	**ug/L**
2,6-Dinitrotoluene	**1.7**	**1.0**	**ug/L**
HMX	ND	2.5	ug/L
Nitrobenzene	ND	1.0	ug/L
2-Nitrotoluene	ND	1.0	ug/L
3-Nitrotoluene	ND	1.0	ug/L
RDX	ND	2.5	ug/L
Tetryl	ND	1.0	ug/L
1,3,5-Trinitrobenzene	ND G	3.6	ug/L
2,4,6-Trinitrotoluene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	112	(39 - 157)

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

HPLC

Lot-Sample #...:	H8F120200-003	**Work Order #...:**	CJ0T1104	**Matrix.....:**	WATER
Date Sampled...:	06/11/98	**Date Received..:**	06/12/98		
Prep Date.....:	06/16/98	**Analysis Date..:**	06/19/98		
Prep Batch #...:	8167328				
Dilution Factor:	1	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**1.7**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**3.7**	**0.20**	**ug/L**
2,6-Dinitrotoluene	**0.51**	**0.20**	**ug/L**
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	103	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

HPLC

Lot-Sample #...:	H8F130129-002	**Work Order #...:**	CJ1AT104	**Matrix.....:**	WATER
Date Sampled...:	06/12/98	**Date Received..:**	06/13/98		
Prep Date.....:	06/16/98	**Analysis Date..:**	06/19/98		
Prep Batch #...:	8167328				
Dilution Factor:	1	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**1.6**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**2.4**	**0.20**	**ug/L**
2,6-Dinitrotoluene	**0.36**	**0.20**	**ug/L**
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	**1.2**	**0.20**	**ug/L**
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	88	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

HPLC

Lot-Sample #...: H8F130129-003	**Work Order #...:** CJ1AV104	**Matrix.....:** WATER
Date Sampled...: 06/12/98	**Date Received..:** 06/13/98	
Prep Date.....: 06/16/98	**Analysis Date..:** 06/26/98	
Prep Batch #...: 8167328		
Dilution Factor: 50	**Method.....:** SW846 8330	

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	10	ug/L
1,3-Dinitrobenzene	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
HMX	ND	25	ug/L
Nitrobenzene	ND	10	ug/L
2-Nitrotoluene	ND	10	ug/L
3-Nitrotoluene	ND	10	ug/L
RDX	ND	25	ug/L
Tetryl	ND	10	ug/L
1,3,5-Trinitrobenzene	ND	10	ug/L
2,4,6-Trinitrotoluene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

HPLC

Lot-Sample #...:	H8F130129-004	**Work Order #...:**	CJ1AW104	**Matrix.....:**	WATER
Date Sampled...:	06/12/98	**Date Received..:**	06/13/98		
Prep Date.....:	06/16/98	**Analysis Date..:**	06/19/98		
Prep Batch #...:	8167328				
Dilution Factor:	100	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	20	ug/L
1,3-Dinitrobenzene	ND	20	ug/L
2,4-Dinitrotoluene	ND	20	ug/L
2,6-Dinitrotoluene	ND	20	ug/L
HMX	ND	50	ug/L
Nitrobenzene	ND	20	ug/L
2-Nitrotoluene	ND	20	ug/L
3-Nitrotoluene	ND	20	ug/L
RDX	ND	50	ug/L
Tetryl	ND	20	ug/L
1,3,5-Trinitrobenzene	ND	20	ug/L
2,4,6-Trinitrotoluene	ND	20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

HPLC

Lot-Sample #...: H8F130129-005 **Work Order #...:** CJ1AX104 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8167328
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**1.1**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**2.4**	**0.20**	**ug/L**
2,6-Dinitrotoluene	**0.36**	**0.20**	**ug/L**
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	118	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

HPLC

Lot-Sample #...: H8F150105-001 **Work Order #...:** CJ1QG103 **Matrix.....:** WATER
Date Sampled...: 06/13/98 **Date Received..:** 06/15/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8167328
Dilution Factor: 100 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	20	ug/L
1,3-Dinitrobenzene	ND	20	ug/L
2,4-Dinitrotoluene	ND	20	ug/L
2,6-Dinitrotoluene	ND	20	ug/L
HMX	ND	50	ug/L
Nitrobenzene	ND	20	ug/L
2-Nitrotoluene	ND	20	ug/L
3-Nitrotoluene	ND	20	ug/L
RDX	ND	50	ug/L
Tetryl	ND	20	ug/L
1,3,5-Trinitrobenzene	ND	20	ug/L
2,4,6-Trinitrotoluene	ND	20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

HPLC

Lot-Sample #...: H8F150105-002 **Work Order #...:** CJ1QK103 **Matrix.....:** WATER
Date Sampled...: 06/13/98 **Date Received..:** 06/15/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8167328
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	109	(39 - 157)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB027 **Work Order #...:** CHXKE101 **Matrix.....:** WATER
MB Lot-Sample #: H8F110000-289

Prep Date.....: 06/11/98
Analysis Date..: 06/18/98 **Prep Batch #...:** 8162289
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	102	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB027 **Work Order #...:** CHXKE102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8F110000-289 CHXKE103-LCSD
Prep Date.....: 06/11/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8162289
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	88	(67 - 123)			SW846 8330
	87	(67 - 123)	1.2	(0-23)	SW846 8330
RDX	116	(85 - 157)			SW846 8330
	113	(85 - 157)	2.6	(0-30)	SW846 8330
1,3,5-Trinitrobenzene	109	(80 - 141)			SW846 8330
	107	(80 - 141)	1.7	(0-18)	SW846 8330
1,3-Dinitrobenzene	107	(81 - 142)			SW846 8330
	105	(81 - 142)	1.5	(0-25)	SW846 8330
Tetryl	82	(55 - 140)			SW846 8330
	80	(55 - 140)	1.5	(0-35)	SW846 8330
Nitrobenzene	105	(69 - 140)			SW846 8330
	106	(69 - 140)	0.85	(0-20)	SW846 8330
2,4,6-Trinitrotoluene	92	(69 - 146)			SW846 8330
	92	(69 - 146)	0.55	(0-24)	SW846 8330
4-Amino-2,6-dinitrotoluene	99	(75 - 130)			SW846 8330
	99	(75 - 130)	0.38	(0-23)	SW846 8330
2,6-Dinitrotoluene	104	(74 - 135)			SW846 8330
	101	(74 - 135)	2.4	(0-19)	SW846 8330
2,4-Dinitrotoluene	100	(77 - 135)			SW846 8330
	98	(77 - 135)	2.0	(0-19)	SW846 8330
2-Nitrotoluene	97	(58 - 136)			SW846 8330
	98	(58 - 136)	1.7	(0-24)	SW846 8330
3-Nitrotoluene	96	(64 - 126)			SW846 8330
	103	(64 - 126)	7.1	(0-23)	SW846 8330
2-Amino-4,6-dinitrotoluene	99	(80 - 131)			SW846 8330
	98	(80 - 131)	0.91	(0-21)	SW846 8330
4-Nitrotoluene	99	(69 - 122)			SW846 8330
	102	(69 - 122)	3.2	(0-25)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(39 - 157)
	103	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: PB027 **Work Order #...:** CJ34Q101 **Matrix.....:** WATER
MB Lot-Sample #: H8F160000-328

Prep Date.....: 06/16/98
Analysis Date..: 06/19/98 **Prep Batch #...:** 8167328
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	99	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB027 **Work Order #...:** CJ34Q102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8F160000-328 CJ34Q103-LCSD
Prep Date.....: 06/16/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8167328
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	85	(67 - 123)			SW846 8330
	88	(67 - 123)	3.1	(0-23)	SW846 8330
RDX	110	(85 - 157)			SW846 8330
	114	(85 - 157)	3.1	(0-30)	SW846 8330
1,3,5-Trinitrobenzene	105	(80 - 141)			SW846 8330
	109	(80 - 141)	3.9	(0-18)	SW846 8330
1,3-Dinitrobenzene	103	(81 - 142)			SW846 8330
	106	(81 - 142)	2.2	(0-25)	SW846 8330
Tetryl	77	(55 - 140)			SW846 8330
	80	(55 - 140)	2.7	(0-35)	SW846 8330
Nitrobenzene	100	(69 - 140)			SW846 8330
	102	(69 - 140)	1.7	(0-20)	SW846 8330
2,4,6-Trinitrotoluene	89	(69 - 146)			SW846 8330
	91	(69 - 146)	2.7	(0-24)	SW846 8330
4-Amino-2,6-dinitrotoluene	96	(75 - 130)			SW846 8330
	98	(75 - 130)	2.1	(0-23)	SW846 8330
2,6-Dinitrotoluene	98	(74 - 135)			SW846 8330
	99	(74 - 135)	1.0	(0-19)	SW846 8330
2,4-Dinitrotoluene	96	(77 - 135)			SW846 8330
	98	(77 - 135)	1.5	(0-19)	SW846 8330
2-Nitrotoluene	92	(58 - 136)			SW846 8330
	95	(58 - 136)	3.2	(0-24)	SW846 8330
3-Nitrotoluene	95	(64 - 126)			SW846 8330
	99	(64 - 126)	3.2	(0-23)	SW846 8330
2-Amino-4,6-dinitrotoluene	97	(80 - 131)			SW846 8330
	98	(80 - 131)	0.92	(0-21)	SW846 8330
4-Nitrotoluene	96	(69 - 122)			SW846 8330
	100	(69 - 122)	3.8	(0-25)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	96	(39 - 157)
	100	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

TOTAL Metals

Lot-Sample #...: H8F090176-001 Matrix.....: WATER
Date Sampled...: 06/08/98 Date Received..: 06/09/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.40	ug/L	SW846 7470A	06/23-06/24/98	CHVK610V
		Dilution Factor: 2		Analysis Time..: 09:59		
Prep Batch #...: 8174272						
Aluminum	**88400**	**2000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHVK6105**
		Dilution Factor: 10		Analysis Time..: 18:15		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CHVK610Q
		Dilution Factor: 10		Analysis Time..: 15:37		
Lead	**96.7**	**30.0**	**ug/L**	**SW846 6010A**	**06/24-07/01/98**	**CHVK610R**
		Dilution Factor: 10		Analysis Time..: 15:37		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CHVK6106
		Dilution Factor: 10		Analysis Time..: 18:15		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CHVK6107
		Dilution Factor: 10		Analysis Time..: 18:15		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CHVK610T
		Dilution Factor: 10		Analysis Time..: 15:37		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHVK6108
		Dilution Factor: 10		Analysis Time..: 18:15		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CHVK610U
		Dilution Factor: 10		Analysis Time..: 15:37		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHVK6109
		Dilution Factor: 10		Analysis Time..: 18:15		
Calcium	**683000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHVK610A**
		Dilution Factor: 10		Analysis Time..: 18:15		
Chromium	**208**	**100**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHVK610C**
		Dilution Factor: 10		Analysis Time..: 18:15		
Cobalt	**2610**	**500**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHVK610D**
		Dilution Factor: 10		Analysis Time..: 18:15		
Copper	**1410**	**250**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHVK610E**
		Dilution Factor: 10		Analysis Time..: 18:15		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

TOTAL Metals

Lot-Sample #...: H8F090176-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	200000	1000	ug/L	SW846 6010A	06/24/98	CHVK610F
		Dilution Factor: 10		Analysis Time..: 18:15		
Magnesium	172000	50000	ug/L	SW846 6010A	06/24/98	CHVK610G
		Dilution Factor: 10		Analysis Time..: 18:15		
Manganese	39600	150	ug/L	SW846 6010A	06/24/98	CHVK610H
		Dilution Factor: 10		Analysis Time..: 18:15		
Nickel	2380	400	ug/L	SW846 6010A	06/24/98	CHVK610J
		Dilution Factor: 10		Analysis Time..: 18:15		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CHVK610K
		Dilution Factor: 10		Analysis Time..: 18:15		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CHVK610L
		Dilution Factor: 10		Analysis Time..: 18:15		
Sodium	5930000	50000	ug/L	SW846 6010A	06/24/98	CHVK610M
		Dilution Factor: 10		Analysis Time..: 18:15		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CHVK610N
		Dilution Factor: 10		Analysis Time..: 18:15		
Zinc	597	200	ug/L	SW846 6010A	06/24/98	CHVK610P
		Dilution Factor: 10		Analysis Time..: 18:15		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

DISSOLVED Metals

Lot-Sample #...: H8F090176-002 **Matrix.....:** WATER
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.40	ug/L	SW846 7470A	06/23-06/24/98	CHVK710Q
		Dilution Factor: 2		Analysis Time..: 10:53		
Prep Batch #...: 8174278						
Aluminum	ND	2000	ug/L	SW846 6010A	06/24/98	CHVK7101
		Dilution Factor: 10		Analysis Time..: 16:36		
Arsenic	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CHVK710L
		Dilution Factor: 20		Analysis Time..: 13:35		
Lead	ND	60.0	ug/L	SW846 6010A	06/24-07/01/98	CHVK710M
		Dilution Factor: 20		Analysis Time..: 13:35		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CHVK7102
		Dilution Factor: 10		Analysis Time..: 16:36		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CHVK7103
		Dilution Factor: 10		Analysis Time..: 16:36		
Selenium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CHVK710N
		Dilution Factor: 20		Analysis Time..: 13:35		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHVK7104
		Dilution Factor: 10		Analysis Time..: 16:36		
Thallium	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CHVK710P
		Dilution Factor: 20		Analysis Time..: 13:35		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHVK7105
		Dilution Factor: 10		Analysis Time..: 16:36		
Calcium	**542000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHVK7106**
		Dilution Factor: 10		Analysis Time..: 16:36		
Chromium	ND	100	ug/L	SW846 6010A	06/24/98	CHVK7107
		Dilution Factor: 10		Analysis Time..: 16:36		
Cobalt	**3090**	**500**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHVK7108**
		Dilution Factor: 10		Analysis Time..: 16:36		
Copper	**1600**	**250**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHVK7109**
		Dilution Factor: 10		Analysis Time..: 16:36		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

DISSOLVED Metals

Lot-Sample #...: H8F090176-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	7480	1000	ug/L	SW846 6010A	06/24/98	CHVK710A
		Dilution Factor: 10		Analysis Time..: 16:36		
Magnesium	139000	50000	ug/L	SW846 6010A	06/24/98	CHVK710C
		Dilution Factor: 10		Analysis Time..: 16:36		
Manganese	42700	150	ug/L	SW846 6010A	06/24/98	CHVK710D
		Dilution Factor: 10		Analysis Time..: 16:36		
Nickel	2760	400	ug/L	SW846 6010A	06/24/98	CHVK710E
		Dilution Factor: 10		Analysis Time..: 16:36		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CHVK710F
		Dilution Factor: 10		Analysis Time..: 16:36		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CHVK710G
		Dilution Factor: 10		Analysis Time..: 16:36		
Sodium	7260000	100000	ug/L	SW846 6010A	06/24-06/26/98	CHVK710H
		Dilution Factor: 20		Analysis Time..: 11:53		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CHVK710J
		Dilution Factor: 10		Analysis Time..: 16:36		
Zinc	ND	200	ug/L	SW846 6010A	06/24/98	CHVK710K
		Dilution Factor: 10		Analysis Time..: 16:36		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

TOTAL Metals

Lot-Sample #...: H8F100194-001 Matrix.....: WATER
Date Sampled...: 06/09/98 Date Received..: 06/10/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	0.55	0.20	ug/L	SW846 7470A	06/23-06/24/98	CHWHQ10V
		Dilution Factor: 1		Analysis Time..: 10:01		
Prep Batch #...: 8174272						
Aluminum	280000	1000	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ105
		Dilution Factor: 5		Analysis Time..: 12:03		
Arsenic	305	40.0	ug/L	SW846 6010A	06/24-07/01/98	CHWHQ10Q
		Dilution Factor: 4		Analysis Time..: 15:43		
Lead	292	12.0	ug/L	SW846 6010A	06/24-07/01/98	CHWHQ10R
		Dilution Factor: 4		Analysis Time..: 15:43		
Antimony	ND	300	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ106
		Dilution Factor: 5		Analysis Time..: 12:03		
Barium	1680	1000	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ107
		Dilution Factor: 5		Analysis Time..: 12:03		
Selenium	ND	20.0	ug/L	SW846 6010A	06/24-07/01/98	CHWHQ10T
		Dilution Factor: 4		Analysis Time..: 15:43		
Beryllium	ND	25.0	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ108
		Dilution Factor: 5		Analysis Time..: 12:03		
Thallium	ND	40.0	ug/L	SW846 6010A	06/24-07/01/98	CHWHQ10U
		Dilution Factor: 4		Analysis Time..: 15:43		
Cadmium	ND	25.0	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ109
		Dilution Factor: 5		Analysis Time..: 12:03		
Calcium	1530000	25000	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10A
		Dilution Factor: 5		Analysis Time..: 12:03		
Chromium	561	50.0	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10C
		Dilution Factor: 5		Analysis Time..: 12:03		
Cobalt	ND	250	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10D
		Dilution Factor: 5		Analysis Time..: 12:03		
Copper	669	125	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10E
		Dilution Factor: 5		Analysis Time..: 12:03		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

TOTAL Metals

Lot-Sample #...: H8F100194-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	679000	500	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10F
		Dilution Factor: 5		Analysis Time..: 12:03		
Magnesium	616000	25000	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10G
		Dilution Factor: 5		Analysis Time..: 12:03		
Manganese	12400	75.0	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10H
		Dilution Factor: 5		Analysis Time..: 12:03		
Nickel	740	200	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10J
		Dilution Factor: 5		Analysis Time..: 12:03		
Potassium	31500	25000	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10K
		Dilution Factor: 5		Analysis Time..: 12:03		
Silver	ND	50.0	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10L
		Dilution Factor: 5		Analysis Time..: 12:03		
Sodium	ND	25000	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10M
		Dilution Factor: 5		Analysis Time..: 12:03		
Vanadium	821	250	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10N
		Dilution Factor: 5		Analysis Time..: 12:03		
Zinc	2010	100	ug/L	SW846 6010A	06/24-06/26/98	CHWHQ10P
		Dilution Factor: 5		Analysis Time..: 12:03		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

DISSOLVED Metals

Lot-Sample #...: H8F100194-002 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CHWJ310Q
		Dilution Factor: 1		Analysis Time..: 10:56		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CHWJ3101
		Dilution Factor: 1		Analysis Time..: 16:41		
Arsenic	**13.4**	**10.0**	**ug/L**	**SW846 6010A**	**06/24-07/01/98**	**CHWJ310L**
		Dilution Factor: 1		Analysis Time..: 13:41		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CHWJ310M
		Dilution Factor: 1		Analysis Time..: 13:41		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CHWJ3102
		Dilution Factor: 1		Analysis Time..: 16:41		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CHWJ3103
		Dilution Factor: 1		Analysis Time..: 16:41		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CHWJ310N
		Dilution Factor: 1		Analysis Time..: 13:41		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CHWJ3104
		Dilution Factor: 1		Analysis Time..: 16:41		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CHWJ310P
		Dilution Factor: 1		Analysis Time..: 13:41		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CHWJ3105
		Dilution Factor: 1		Analysis Time..: 16:41		
Calcium	**90900**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHWJ3106**
		Dilution Factor: 1		Analysis Time..: 16:41		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CHWJ3107
		Dilution Factor: 1		Analysis Time..: 16:41		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CHWJ3108
		Dilution Factor: 1		Analysis Time..: 16:41		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CHWJ3109
		Dilution Factor: 1		Analysis Time..: 16:41		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

DISSOLVED Metals

Lot-Sample #...: H8F100194-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**166**	**100**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHWJ310A**
		Dilution Factor: 1		Analysis Time..: 16:41		
Magnesium	**25300**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHWJ310C**
		Dilution Factor: 1		Analysis Time..: 16:41		
Manganese	**39.3**	**15.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHWJ310D**
		Dilution Factor: 1		Analysis Time..: 16:41		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CHWJ310E
		Dilution Factor: 1		Analysis Time..: 16:41		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CHWJ310F
		Dilution Factor: 1		Analysis Time..: 16:41		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CHWJ310G
		Dilution Factor: 1		Analysis Time..: 16:41		
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CHWJ310H
		Dilution Factor: 1		Analysis Time..: 16:41		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHWJ310J
		Dilution Factor: 1		Analysis Time..: 16:41		
Zinc	**21.6**	**20.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHWJ310K**
		Dilution Factor: 1		Analysis Time..: 16:41		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

TOTAL Metals

Lot-Sample #...: H8F110182-001 Matrix.....: WATER
Date Sampled...: 06/10/98 Date Received..: 06/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CHXK810U
		Dilution Factor: 1		Analysis Time..: 10:08		
Prep Batch #...: 8174272						
Aluminum	**69000**	**200**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXK8104**
		Dilution Factor: 1		Analysis Time..: 18:50		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CHXK810P
		Dilution Factor: 10		Analysis Time..: 16:27		
Lead	**86.2**	**30.0**	**ug/L**	**SW846 6010A**	**06/24-07/01/98**	**CHXK810Q**
		Dilution Factor: 10		Analysis Time..: 16:27		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CHXK8105
		Dilution Factor: 1		Analysis Time..: 18:50		
Barium	**556**	**200**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXK8106**
		Dilution Factor: 1		Analysis Time..: 18:50		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CHXK810R
		Dilution Factor: 10		Analysis Time..: 16:27		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CHXK8107
		Dilution Factor: 1		Analysis Time..: 18:50		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CHXK810T
		Dilution Factor: 10		Analysis Time..: 16:27		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CHXK8108
		Dilution Factor: 1		Analysis Time..: 18:50		
Calcium	**650000**	**50000**	**ug/L**	**SW846 6010A**	**06/24-06/26/98**	**CHXK8109**
		Dilution Factor: 10		Analysis Time..: 12:22		
Chromium	**114**	**10.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXK810A**
		Dilution Factor: 1		Analysis Time..: 18:50		
Cobalt	**77.6**	**50.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXK810C**
		Dilution Factor: 1		Analysis Time..: 18:50		
Copper	**194**	**25.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXK810D**
		Dilution Factor: 1		Analysis Time..: 18:50		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

TOTAL Metals

Lot-Sample #...: H8F110182-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	176000	100	ug/L	SW846 6010A	06/24/98	CHXK810R
		Dilution Factor: 1		Analysis Time..: 18:50		
Magnesium	217000	5000	ug/L	SW846 6010A	06/24/98	CHXK810F
		Dilution Factor: 1		Analysis Time..: 18:50		
Manganese	4310	15.0	ug/L	SW846 6010A	06/24/98	CHXK810G
		Dilution Factor: 1		Analysis Time..: 18:50		
Nickel	191	40.0	ug/L	SW846 6010A	06/24/98	CHXK810H
		Dilution Factor: 1		Analysis Time..: 18:50		
Potassium	12300	5000	ug/L	SW846 6010A	06/24/98	CHXK810J
		Dilution Factor: 1		Analysis Time..: 18:50		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CHXK810K
		Dilution Factor: 1		Analysis Time..: 18:50		
Sodium	7060	5000	ug/L	SW846 6010A	06/24/98	CHXK810L
		Dilution Factor: 1		Analysis Time..: 18:50		
Vanadium	212	50.0	ug/L	SW846 6010A	06/24/98	CHXK810M
		Dilution Factor: 1		Analysis Time..: 18:50		
Zinc	525	20.0	ug/L	SW846 6010A	06/24/98	CHXK810N
		Dilution Factor: 1		Analysis Time..: 18:50		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

DISSOLVED Metals

Lot-Sample #...: H8F110182-005 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CHXKD10Q
		Dilution Factor: 1		Analysis Time..: 11:03		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CHXKD101
		Dilution Factor: 1		Analysis Time..: 17:01		
Arsenic	**11.0**	**10.0**	**ug/L**	**SW846 6010A**	**06/24-07/01/98**	**CHXKD10L**
		Dilution Factor: 1		Analysis Time..: 14:14		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKD10M
		Dilution Factor: 1		Analysis Time..: 14:14		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CHXKD102
		Dilution Factor: 1		Analysis Time..: 17:01		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CHXKD103
		Dilution Factor: 1		Analysis Time..: 17:01		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKD10N
		Dilution Factor: 1		Analysis Time..: 14:14		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CHXKD104
		Dilution Factor: 1		Analysis Time..: 17:01		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKD10P
		Dilution Factor: 1		Analysis Time..: 14:14		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CHXKD105
		Dilution Factor: 1		Analysis Time..: 17:01		
Calcium	**66500**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKD106**
		Dilution Factor: 1		Analysis Time..: 17:01		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CHXKD107
		Dilution Factor: 1		Analysis Time..: 17:01		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CHXKD108
		Dilution Factor: 1		Analysis Time..: 17:01		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CHXKD109
		Dilution Factor: 1		Analysis Time..: 17:01		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7470

DISSOLVED Metals

Lot-Sample #...: H8F110182-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	190	100	ug/L	SW846 6010A	06/24/98	CHXKD10A
		Dilution Factor: 1		Analysis Time..: 17:01		
Magnesium	15800	5000	ug/L	SW846 6010A	06/24/98	CHXKD10C
		Dilution Factor: 1		Analysis Time..: 17:01		
Manganese	71.4	15.0	ug/L	SW846 6010A	06/24/98	CHXKD10D
		Dilution Factor: 1		Analysis Time..: 17:01		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CHXKD10E
		Dilution Factor: 1		Analysis Time..: 17:01		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CHXKD10F
		Dilution Factor: 1		Analysis Time..: 17:01		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CHXKD10G
		Dilution Factor: 1		Analysis Time..: 17:01		
Sodium	5490	5000	ug/L	SW846 6010A	06/24/98	CHXKD10H
		Dilution Factor: 1		Analysis Time..: 17:01		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHXKD10J
		Dilution Factor: 1		Analysis Time..: 17:01		
Zinc	77.7	20.0	ug/L	SW846 6010A	06/24/98	CHXKD10K
		Dilution Factor: 1		Analysis Time..: 17:01		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

TOTAL Metals

Lot-Sample #...: H8F110182-002 Matrix.....: WATER
Date Sampled...: 06/10/98 Date Received..: 06/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	0.20	0.20	ug/L	SW846 7470A	06/23-06/24/98	CHXK910U
		Dilution Factor: 1		Analysis Time..: 10:11		
Prep Batch #...: 8174272						
Aluminum	178000	200	ug/L	SW846 6010A	06/24/98	CHXK9104
		Dilution Factor: 1		Analysis Time..: 18:55		
Arsenic	259	100	ug/L	SW846 6010A	06/24-07/01/98	CHXK910P
		Dilution Factor: 10		Analysis Time..: 16:33		
Lead	323	30.0	ug/L	SW846 6010A	06/24-07/01/98	CHXK910Q
		Dilution Factor: 10		Analysis Time..: 16:33		
Antimony	118	60.0	ug/L	SW846 6010A	06/24/98	CHXK9105
		Dilution Factor: 1		Analysis Time..: 18:55		
Barium	1210	200	ug/L	SW846 6010A	06/24/98	CHXK9106
		Dilution Factor: 1		Analysis Time..: 18:55		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CHXK910R
		Dilution Factor: 10		Analysis Time..: 16:33		
Beryllium	8.8	5.0	ug/L	SW846 6010A	06/24/98	CHXK9107
		Dilution Factor: 1		Analysis Time..: 18:55		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CHXK910T
		Dilution Factor: 10		Analysis Time..: 16:33		
Cadmium	6.5	5.0	ug/L	SW846 6010A	06/24/98	CHXK9108
		Dilution Factor: 1		Analysis Time..: 18:55		
Calcium	863000	50000	ug/L	SW846 6010A	06/24-06/26/98	CHXK9109
		Dilution Factor: 10		Analysis Time..: 12:27		
Chromium	273	10.0	ug/L	SW846 6010A	06/24/98	CHXK910A
		Dilution Factor: 1		Analysis Time..: 18:55		
Cobalt	208	50.0	ug/L	SW846 6010A	06/24/98	CHXK910C
		Dilution Factor: 1		Analysis Time..: 18:55		
Copper	472	25.0	ug/L	SW846 6010A	06/24/98	CHXK910D
		Dilution Factor: 1		Analysis Time..: 18:55		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

TOTAL Metals

Lot-Sample #...: H8F110182-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	468000	100	ug/L	SW846 6010A	06/24/98	CHXK910E
		Dilution Factor: 1		Analysis Time..: 18:55		
Magnesium	253000	5000	ug/L	SW846 6010A	06/24/98	CHXK910F
		Dilution Factor: 1		Analysis Time..: 18:55		
Manganese	11800	15.0	ug/L	SW846 6010A	06/24/98	CHXK910G
		Dilution Factor: 1		Analysis Time..: 18:55		
Nickel	521	40.0	ug/L	SW846 6010A	06/24/98	CHXK910H
		Dilution Factor: 1		Analysis Time..: 18:55		
Potassium	22700	5000	ug/L	SW846 6010A	06/24/98	CHXK910J
		Dilution Factor: 1		Analysis Time..: 18:55		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CHXK910K
		Dilution Factor: 1		Analysis Time..: 18:55		
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CHXK910L
		Dilution Factor: 1		Analysis Time..: 18:55		
Vanadium	438	50.0	ug/L	SW846 6010A	06/24/98	CHXK910M
		Dilution Factor: 1		Analysis Time..: 18:55		
Zinc	1550	20.0	ug/L	SW846 6010A	06/24/98	CHXK910N
		Dilution Factor: 1		Analysis Time..: 18:55		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

DISSOLVED Metals

Lot-Sample #...: H8F110182-006 **Matrix.....:** WATER
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CHXKG10Q
		Dilution Factor: 1		Analysis Time..: 11:05		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CHXKG101
		Dilution Factor: 1		Analysis Time..: 17:06		
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKG10L
		Dilution Factor: 1		Analysis Time..: 14:20		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKG10M
		Dilution Factor: 1		Analysis Time..: 14:20		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CHXKG102
		Dilution Factor: 1		Analysis Time..: 17:06		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CHXKG103
		Dilution Factor: 1		Analysis Time..: 17:06		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKG10N
		Dilution Factor: 1		Analysis Time..: 14:20		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CHXKG104
		Dilution Factor: 1		Analysis Time..: 17:06		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKG10P
		Dilution Factor: 1		Analysis Time..: 14:20		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CHXKG105
		Dilution Factor: 1		Analysis Time..: 17:06		
Calcium	**58000**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKG106**
		Dilution Factor: 1		Analysis Time..: 17:06		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CHXKG107
		Dilution Factor: 1		Analysis Time..: 17:06		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CHXKG108
		Dilution Factor: 1		Analysis Time..: 17:06		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CHXKG109
		Dilution Factor: 1		Analysis Time..: 17:06		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7510

DISSOLVED Metals

Lot-Sample #...: H8F110182-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	116	100	ug/L	SW846 6010A	06/24/98	CHXKG10A
		Dilution Factor: 1		Analysis Time..: 17:06		
Magnesium	12900	5000	ug/L	SW846 6010A	06/24/98	CHXKG10C
		Dilution Factor: 1		Analysis Time..: 17:06		
Manganese	ND	15.0	ug/L	SW846 6010A	06/24/98	CHXKG10D
		Dilution Factor: 1		Analysis Time..: 17:06		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CHXKG10E
		Dilution Factor: 1		Analysis Time..: 17:06		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CHXKG10F
		Dilution Factor: 1		Analysis Time..: 17:06		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CHXKG10G
		Dilution Factor: 1		Analysis Time..: 17:06		
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CHXKG10H
		Dilution Factor: 1		Analysis Time..: 17:06		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHXKG10J
		Dilution Factor: 1		Analysis Time..: 17:06		
Zinc	26.5	20.0	ug/L	SW846 6010A	06/24/98	CHXKG10K
		Dilution Factor: 1		Analysis Time..: 17:06		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

TOTAL Metals

Lot-Sample #...: H8F110182-003 Matrix.....: WATER
Date Sampled...: 06/10/98 Date Received..: 06/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	2.0	ug/L	SW846 7470A	06/23-06/24/98	CHXKA10V
		Dilution Factor: 10		Analysis Time..: 10:13		
Prep Batch #...: 8174272						
Aluminum	**78300**	**2000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKA105**
		Dilution Factor: 10		Analysis Time..: 19:00		
Arsenic	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CHXKA10Q
		Dilution Factor: 20		Analysis Time..: 16:38		
Lead	ND	60.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKA10R
		Dilution Factor: 20		Analysis Time..: 16:38		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CHXKA106
		Dilution Factor: 10		Analysis Time..: 19:00		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CHXKA107
		Dilution Factor: 10		Analysis Time..: 19:00		
Selenium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CHXKA10T
		Dilution Factor: 20		Analysis Time..: 16:38		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHXKA108
		Dilution Factor: 10		Analysis Time..: 19:00		
Thallium	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CHXKA10U
		Dilution Factor: 20		Analysis Time..: 16:38		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHXKA109
		Dilution Factor: 10		Analysis Time..: 19:00		
Calcium	**662000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKA10A**
		Dilution Factor: 10		Analysis Time..: 19:00		
Chromium	**223**	**100**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKA10C**
		Dilution Factor: 10		Analysis Time..: 19:00		
Cobalt	**5610**	**500**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKA10D**
		Dilution Factor: 10		Analysis Time..: 19:00		
Copper	**2800**	**250**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKA10E**
		Dilution Factor: 10		Analysis Time..: 19:00		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

TOTAL Metals

Lot-Sample #...: H8F110182-003 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	202000	1000	ug/L	SW846 6010A	06/24/98	CHXKA10F
		Dilution Factor: 10		Analysis Time..: 19:00		
Magnesium	326000	50000	ug/L	SW846 6010A	06/24/98	CHXKA10G
		Dilution Factor: 10		Analysis Time..: 19:00		
Manganese	55100	150	ug/L	SW846 6010A	06/24/98	CHXKA10H
		Dilution Factor: 10		Analysis Time..: 19:00		
Nickel	5040	400	ug/L	SW846 6010A	06/24/98	CHXKA10J
		Dilution Factor: 10		Analysis Time..: 19:00		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CHXKA10K
		Dilution Factor: 10		Analysis Time..: 19:00		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CHXKA10L
		Dilution Factor: 10		Analysis Time..: 19:00		
Sodium	9410000	100000	ug/L	SW846 6010A	06/24-06/26/98	CHXKA10M
		Dilution Factor: 20		Analysis Time..: 12:32		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CHXKA10N
		Dilution Factor: 10		Analysis Time..: 19:00		
Zinc	736	200	ug/L	SW846 6010A	06/24/98	CHXKA10P
		Dilution Factor: 10		Analysis Time..: 19:00		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

DISSOLVED Metals

Lot-Sample #...: H8F110182-007 Matrix.....: WATER
Date Sampled...: 06/10/98 Date Received..: 06/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	2.0	ug/L	SW846 7470A	06/23-06/24/98	CHXKH10Q
		Dilution Factor: 10		Analysis Time..: 11:08		
Prep Batch #...: 8174278						
Aluminum	ND	2000	ug/L	SW846 6010A	06/24/98	CHXKH101
		Dilution Factor: 10		Analysis Time..: 17:11		
Arsenic	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CHXKH10L
		Dilution Factor: 20		Analysis Time..: 14:25		
Lead	ND	60.0	ug/L	SW846 6010A	06/24-07/01/98	CHXKH10M
		Dilution Factor: 20		Analysis Time..: 14:25		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CHXKH102
		Dilution Factor: 10		Analysis Time..: 17:11		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CHXKH103
		Dilution Factor: 10		Analysis Time..: 17:11		
Selenium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CHXKH10N
		Dilution Factor: 20		Analysis Time..: 14:25		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHXKH104
		Dilution Factor: 10		Analysis Time..: 17:11		
Thallium	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CHXKH10P
		Dilution Factor: 20		Analysis Time..: 14:25		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CHXKH105
		Dilution Factor: 10		Analysis Time..: 17:11		
Calcium	**681000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKH106**
		Dilution Factor: 10		Analysis Time..: 17:11		
Chromium	ND	100	ug/L	SW846 6010A	06/24/98	CHXKH107
		Dilution Factor: 10		Analysis Time..: 17:11		
Cobalt	**6660**	**500**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKH108**
		Dilution Factor: 10		Analysis Time..: 17:11		
Copper	**3260**	**250**	**ug/L**	**SW846 6010A**	**06/24/98**	**CHXKH109**
		Dilution Factor: 10		Analysis Time..: 17:11		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7590

DISSOLVED Metals

Lot-Sample #...: H8F110182-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	15300	1000	ug/L	SW846 6010A	06/24/98	CHXKH10A
		Dilution Factor: 10		Analysis Time..: 17:11		
Magnesium	348000	50000	ug/L	SW846 6010A	06/24/98	CHXKH10C
		Dilution Factor: 10		Analysis Time..: 17:11		
Manganese	62400	150	ug/L	SW846 6010A	06/24/98	CHXKH10D
		Dilution Factor: 10		Analysis Time..: 17:11		
Nickel	5820	400	ug/L	SW846 6010A	06/24/98	CHXKH10E
		Dilution Factor: 10		Analysis Time..: 17:11		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CHXKH10F
		Dilution Factor: 10		Analysis Time..: 17:11		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CHXKH10G
		Dilution Factor: 10		Analysis Time..: 17:11		
Sodium	12600000	100000	ug/L	SW846 6010A	06/24-06/26/98	CHXKH10H
		Dilution Factor: 20		Analysis Time..: 11:58		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CHXKH10J
		Dilution Factor: 10		Analysis Time..: 17:11		
Zinc	225	200	ug/L	SW846 6010A	06/24/98	CHXKH10K
		Dilution Factor: 10		Analysis Time..: 17:11		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

TOTAL Metals

Lot-Sample #...: H8F120200-001 Matrix.....: WATER
Date Sampled...: 06/11/98 Date Received..: 06/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	0.32	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ0RW10V
		Dilution Factor: 1		Analysis Time..: 10:15		
Prep Batch #...: 8174272						
Aluminum	170000	200	ug/L	SW846 6010A	06/24/98	CJ0RW105
		Dilution Factor: 1		Analysis Time..: 19:30		
Arsenic	238	200	ug/L	SW846 6010A	06/24-07/01/98	CJ0RW10Q
		Dilution Factor: 20		Analysis Time..: 16:44		
Lead	202	60.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0RW10R
		Dilution Factor: 20		Analysis Time..: 16:44		
Antimony	105	60.0	ug/L	SW846 6010A	06/24/98	CJ0RW106
		Dilution Factor: 1		Analysis Time..: 19:30		
Barium	896	200	ug/L	SW846 6010A	06/24/98	CJ0RW107
		Dilution Factor: 1		Analysis Time..: 19:30		
Selenium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ0RW10T
		Dilution Factor: 20		Analysis Time..: 16:44		
Beryllium	8.5	5.0	ug/L	SW846 6010A	06/24/98	CJ0RW108
		Dilution Factor: 1		Analysis Time..: 19:30		
Thallium	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CJ0RW10U
		Dilution Factor: 20		Analysis Time..: 16:44		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0RW109
		Dilution Factor: 1		Analysis Time..: 19:30		
Calcium	926000	100000	ug/L	SW846 6010A	06/24-06/26/98	CJ0RW10A
		Dilution Factor: 20		Analysis Time..: 12:47		
Chromium	277	10.0	ug/L	SW846 6010A	06/24/98	CJ0RW10C
		Dilution Factor: 1		Analysis Time..: 19:30		
Cobalt	172	50.0	ug/L	SW846 6010A	06/24/98	CJ0RW10D
		Dilution Factor: 1		Analysis Time..: 19:30		
Copper	515	25.0	ug/L	SW846 6010A	06/24/98	CJ0RW10E
		Dilution Factor: 1		Analysis Time..: 19:30		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

TOTAL Metals

Lot-Sample #...: H8F120200-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	426000	100	ug/L	SW846 6010A	06/24/98	CJ0RW10F
		Dilution Factor: 1		Analysis Time..: 19:30		
Magnesium	313000	5000	ug/L	SW846 6010A	06/24/98	CJ0RW10G
		Dilution Factor: 1		Analysis Time..: 19:30		
Manganese	6460	15.0	ug/L	SW846 6010A	06/24/98	CJ0RW10H
		Dilution Factor: 1		Analysis Time..: 19:30		
Nickel	490	40.0	ug/L	SW846 6010A	06/24/98	CJ0RW10J
		Dilution Factor: 1		Analysis Time..: 19:30		
Potassium	21600	5000	ug/L	SW846 6010A	06/24/98	CJ0RW10K
		Dilution Factor: 1		Analysis Time..: 19:30		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0RW10L
		Dilution Factor: 1		Analysis Time..: 19:30		
Sodium	5960	5000	ug/L	SW846 6010A	06/24/98	CJ0RW10M
		Dilution Factor: 1		Analysis Time..: 19:30		
Vanadium	391	50.0	ug/L	SW846 6010A	06/24/98	CJ0RW10N
		Dilution Factor: 1		Analysis Time..: 19:30		
Zinc	1350	20.0	ug/L	SW846 6010A	06/24/98	CJ0RW10P
		Dilution Factor: 1		Analysis Time..: 19:30		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

DISSOLVED Metals

Lot-Sample #...: H8F120200-005 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ0T410Q
		Dilution Factor: 1		Analysis Time..: 11:10		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ0T4101
		Dilution Factor: 1		Analysis Time..: 17:16		
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T410L
		Dilution Factor: 1		Analysis Time..: 14:31		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T410M
		Dilution Factor: 1		Analysis Time..: 14:31		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ0T4102
		Dilution Factor: 1		Analysis Time..: 17:16		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ0T4103
		Dilution Factor: 1		Analysis Time..: 17:16		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T410N
		Dilution Factor: 1		Analysis Time..: 14:31		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T4104
		Dilution Factor: 1		Analysis Time..: 17:16		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T410P
		Dilution Factor: 1		Analysis Time..: 14:31		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T4105
		Dilution Factor: 1		Analysis Time..: 17:16		
Calcium	**98800**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T4106**
		Dilution Factor: 1		Analysis Time..: 17:16		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T4107
		Dilution Factor: 1		Analysis Time..: 17:16		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T4108
		Dilution Factor: 1		Analysis Time..: 17:16		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ0T4109
		Dilution Factor: 1		Analysis Time..: 17:16		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7670

DISSOLVED Metals

Lot-Sample #...: H8F120200-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	125	100	ug/L	SW846 6010A	06/24/98	CJ0T410A
		Dilution Factor: 1		Analysis Time..: 17:16		
Magnesium	25100	5000	ug/L	SW846 6010A	06/24/98	CJ0T410C
		Dilution Factor: 1		Analysis Time..: 17:16		
Manganese	150	15.0	ug/L	SW846 6010A	06/24/98	CJ0T410D
		Dilution Factor: 1		Analysis Time..: 17:16		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ0T410E
		Dilution Factor: 1		Analysis Time..: 17:16		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ0T410F
		Dilution Factor: 1		Analysis Time..: 17:16		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T410G
		Dilution Factor: 1		Analysis Time..: 17:16		
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ0T410H
		Dilution Factor: 1		Analysis Time..: 17:16		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T410J
		Dilution Factor: 1		Analysis Time..: 17:16		
Zinc	ND	20.0	ug/L	SW846 6010A	06/24/98	CJ0T410K
		Dilution Factor: 1		Analysis Time..: 17:16		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

TOTAL Metals

Lot-Sample #...: H8F120200-002 Matrix.....: WATER
Date Sampled...: 06/11/98 Date Received..: 06/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ0T010V
		Dilution Factor: 1		Analysis Time..: 10:23		
Prep Batch #...: 8174272						
Aluminum	38600	200	ug/L	SW846 6010A	06/24/98	CJ0T0105
		Dilution Factor: 1		Analysis Time..: 19:35		
Arsenic	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CJ0T010Q
		Dilution Factor: 20		Analysis Time..: 16:50		
Lead	ND	60.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T010R
		Dilution Factor: 20		Analysis Time..: 16:50		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ0T0106
		Dilution Factor: 1		Analysis Time..: 19:35		
Barium	218	200	ug/L	SW846 6010A	06/24/98	CJ0T0107
		Dilution Factor: 1		Analysis Time..: 19:35		
Selenium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ0T010T
		Dilution Factor: 20		Analysis Time..: 16:50		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T0108
		Dilution Factor: 1		Analysis Time..: 19:35		
Thallium	ND	200	ug/L	SW846 6010A	06/24-07/01/98	CJ0T010U
		Dilution Factor: 20		Analysis Time..: 16:50		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T0109
		Dilution Factor: 1		Analysis Time..: 19:35		
Calcium	1270000	100000	ug/L	SW846 6010A	06/24-06/26/98	CJ0T010A
		Dilution Factor: 20		Analysis Time..: 12:52		
Chromium	65.8	10.0	ug/L	SW846 6010A	06/24/98	CJ0T010C
		Dilution Factor: 1		Analysis Time..: 19:35		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T010D
		Dilution Factor: 1		Analysis Time..: 19:35		
Copper	106	25.0	ug/L	SW846 6010A	06/24/98	CJ0T010E
		Dilution Factor: 1		Analysis Time..: 19:35		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

TOTAL Metals

Lot-Sample #...: H8F120200-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	87000	100	ug/L	SW846 6010A	06/24/98	CJ0T010F
		Dilution Factor: 1		Analysis Time..: 19:35		
Magnesium	286000	5000	ug/L	SW846 6010A	06/24/98	CJ0T010G
		Dilution Factor: 1		Analysis Time..: 19:35		
Manganese	3280	15.0	ug/L	SW846 6010A	06/24/98	CJ0T010H
		Dilution Factor: 1		Analysis Time..: 19:35		
Nickel	113	40.0	ug/L	SW846 6010A	06/24/98	CJ0T010J
		Dilution Factor: 1		Analysis Time..: 19:35		
Potassium	6430	5000	ug/L	SW846 6010A	06/24/98	CJ0T010K
		Dilution Factor: 1		Analysis Time..: 19:35		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T010L
		Dilution Factor: 1		Analysis Time..: 19:35		
Sodium	6010	5000	ug/L	SW846 6010A	06/24/98	CJ0T010M
		Dilution Factor: 1		Analysis Time..: 19:35		
Vanadium	163	50.0	ug/L	SW846 6010A	06/24/98	CJ0T010N
		Dilution Factor: 1		Analysis Time..: 19:35		
Zinc	341	20.0	ug/L	SW846 6010A	06/24/98	CJ0T010P
		Dilution Factor: 1		Analysis Time..: 19:35		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

DISSOLVED Metals

Lot-Sample #...: H8F120200-006 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ0T710Q
		Dilution Factor: 1		Analysis Time..: 11:12		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ0T7101
		Dilution Factor: 1		Analysis Time..: 17:21		
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T710L
		Dilution Factor: 1		Analysis Time..: 14:36		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T710M
		Dilution Factor: 1		Analysis Time..: 14:36		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ0T7102
		Dilution Factor: 1		Analysis Time..: 17:21		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ0T7103
		Dilution Factor: 1		Analysis Time..: 17:21		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T710N
		Dilution Factor: 1		Analysis Time..: 14:36		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T7104
		Dilution Factor: 1		Analysis Time..: 17:21		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T710P
		Dilution Factor: 1		Analysis Time..: 14:36		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T7105
		Dilution Factor: 1		Analysis Time..: 17:21		
Calcium	**55000**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T7106**
		Dilution Factor: 1		Analysis Time..: 17:21		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T7107
		Dilution Factor: 1		Analysis Time..: 17:21		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T7108
		Dilution Factor: 1		Analysis Time..: 17:21		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ0T7109
		Dilution Factor: 1		Analysis Time..: 17:21		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7870

DISSOLVED Metals

Lot-Sample #...: H8F120200-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	06/24/98	CJ0T710A
		Dilution Factor: 1		Analysis Time..: 17:21		
Magnesium	**13200**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T710C**
		Dilution Factor: 1		Analysis Time..: 17:21		
Manganese	**22.4**	**15.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T710D**
		Dilution Factor: 1		Analysis Time..: 17:21		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ0T710E
		Dilution Factor: 1		Analysis Time..: 17:21		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ0T710F
		Dilution Factor: 1		Analysis Time..: 17:21		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T710G
		Dilution Factor: 1		Analysis Time..: 17:21		
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ0T710H
		Dilution Factor: 1		Analysis Time..: 17:21		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T710J
		Dilution Factor: 1		Analysis Time..: 17:21		
Zinc	**28.7**	**20.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T710K**
		Dilution Factor: 1		Analysis Time..: 17:21		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

TOTAL Metals

Lot-Sample #...: H8F120200-003 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ0T110V
		Dilution Factor: 1		Analysis Time..: 10:25		
Prep Batch #...: 8174272						
Aluminum	**1930**	**200**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T1105**
		Dilution Factor: 1		Analysis Time..: 19:40		
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T110Q
		Dilution Factor: 1		Analysis Time..: 16:55		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T110R
		Dilution Factor: 1		Analysis Time..: 16:55		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ0T1106
		Dilution Factor: 1		Analysis Time..: 19:40		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ0T1107
		Dilution Factor: 1		Analysis Time..: 19:40		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T110T
		Dilution Factor: 1		Analysis Time..: 16:55		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T1108
		Dilution Factor: 1		Analysis Time..: 19:40		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T110U
		Dilution Factor: 1		Analysis Time..: 16:55		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T1109
		Dilution Factor: 1		Analysis Time..: 19:40		
Calcium	**86100**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T110A**
		Dilution Factor: 1		Analysis Time..: 19:40		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T110C
		Dilution Factor: 1		Analysis Time..: 19:40		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T110D
		Dilution Factor: 1		Analysis Time..: 19:40		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ0T110E
		Dilution Factor: 1		Analysis Time..: 19:40		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

TOTAL Metals

Lot-Sample #...: H8F120200-003 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	4250	100	ug/L	SW846 6010A	06/24/98	CJ0T110F
		Dilution Factor: 1		Analysis Time..: 19:40		
Magnesium	21200	5000	ug/L	SW846 6010A	06/24/98	CJ0T110G
		Dilution Factor: 1		Analysis Time..: 19:40		
Manganese	141	15.0	ug/L	SW846 6010A	06/24/98	CJ0T110H
		Dilution Factor: 1		Analysis Time..: 19:40		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ0T110J
		Dilution Factor: 1		Analysis Time..: 19:40		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ0T110K
		Dilution Factor: 1		Analysis Time..: 19:40		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T110L
		Dilution Factor: 1		Analysis Time..: 19:40		
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ0T110M
		Dilution Factor: 1		Analysis Time..: 19:40		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T110N
		Dilution Factor: 1		Analysis Time..: 19:40		
Zinc	44.7	20.0	ug/L	SW846 6010A	06/24/98	CJ0T110P
		Dilution Factor: 1		Analysis Time..: 19:40		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

DISSOLVED Metals

Lot-Sample #...: H8F120200-007 **Matrix.....:** WATER
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ0T810Q
		Dilution Factor: 1		Analysis Time..: 11:20		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ0T8101
		Dilution Factor: 1		Analysis Time..: 17:36		
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T810L
		Dilution Factor: 1		Analysis Time..: 14:42		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T810M
		Dilution Factor: 1		Analysis Time..: 14:42		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ0T8102
		Dilution Factor: 1		Analysis Time..: 17:36		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ0T8103
		Dilution Factor: 1		Analysis Time..: 17:36		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T810N
		Dilution Factor: 1		Analysis Time..: 14:42		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T8104
		Dilution Factor: 1		Analysis Time..: 17:36		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ0T810P
		Dilution Factor: 1		Analysis Time..: 14:42		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ0T8105
		Dilution Factor: 1		Analysis Time..: 17:36		
Calcium	**56400**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T8106**
		Dilution Factor: 1		Analysis Time..: 17:36		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T8107
		Dilution Factor: 1		Analysis Time..: 17:36		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T8108
		Dilution Factor: 1		Analysis Time..: 17:36		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ0T8109
		Dilution Factor: 1		Analysis Time..: 17:36		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7871

DISSOLVED Metals

Lot-Sample #...: H8F120200-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	06/24/98	CJ0T810A
		Dilution Factor: 1		Analysis Time..: 17:36		
Magnesium	**13600**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T810C**
		Dilution Factor: 1		Analysis Time..: 17:36		
Manganese	**25.4**	**15.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T810D**
		Dilution Factor: 1		Analysis Time..: 17:36		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ0T810E
		Dilution Factor: 1		Analysis Time..: 17:36		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ0T810F
		Dilution Factor: 1		Analysis Time..: 17:36		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ0T810G
		Dilution Factor: 1		Analysis Time..: 17:36		
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ0T810H
		Dilution Factor: 1		Analysis Time..: 17:36		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ0T810J
		Dilution Factor: 1		Analysis Time..: 17:36		
Zinc	**41.1**	**20.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ0T810K**
		Dilution Factor: 1		Analysis Time..: 17:36		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

TOTAL Metals

Lot-Sample #...: H8F130129-001 Matrix.....: WATER
Date Sampled...: 06/12/98 Date Received..: 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ1AQ10V
		Dilution Factor: 1		Analysis Time..: 10:27		
Prep Batch #...: 8174272						
Aluminum	**52900**	**2000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AQ105**
		Dilution Factor: 10		Analysis Time..: 19:45		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1AQ10Q
		Dilution Factor: 10		Analysis Time..: 17:01		
Lead	**58.3**	**30.0**	**ug/L**	**SW846 6010A**	**06/24-07/01/98**	**CJ1AQ10R**
		Dilution Factor: 10		Analysis Time..: 17:01		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CJ1AQ106
		Dilution Factor: 10		Analysis Time..: 19:45		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1AQ107
		Dilution Factor: 10		Analysis Time..: 19:45		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AQ10T
		Dilution Factor: 10		Analysis Time..: 17:01		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1AQ108
		Dilution Factor: 10		Analysis Time..: 19:45		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1AQ10U
		Dilution Factor: 10		Analysis Time..: 17:01		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1AQ109
		Dilution Factor: 10		Analysis Time..: 19:45		
Calcium	**432000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AQ10A**
		Dilution Factor: 10		Analysis Time..: 19:45		
Chromium	**112**	**100**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AQ10C**
		Dilution Factor: 10		Analysis Time..: 19:45		
Cobalt	ND	500	ug/L	SW846 6010A	06/24/98	CJ1AQ10D
		Dilution Factor: 10		Analysis Time..: 19:45		
Copper	**277**	**250**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AQ10E**
		Dilution Factor: 10		Analysis Time..: 19:45		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

TOTAL Metals

Lot-Sample #...: H8F130129-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	125000	1000	ug/L	SW846 6010A	06/24/98	CJ1AQ10F
		Dilution Factor: 10		Analysis Time..: 19:45		
Magnesium	101000	50000	ug/L	SW846 6010A	06/24/98	CJ1AQ10G
		Dilution Factor: 10		Analysis Time..: 19:45		
Manganese	4040	150	ug/L	SW846 6010A	06/24/98	CJ1AQ10H
		Dilution Factor: 10		Analysis Time..: 19:45		
Nickel	ND	400	ug/L	SW846 6010A	06/24/98	CJ1AQ10J
		Dilution Factor: 10		Analysis Time..: 19:45		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1AQ10K
		Dilution Factor: 10		Analysis Time..: 19:45		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CJ1AQ10L
		Dilution Factor: 10		Analysis Time..: 19:45		
Sodium	788000	50000	ug/L	SW846 6010A	06/24/98	CJ1AQ10M
		Dilution Factor: 10		Analysis Time..: 19:45		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CJ1AQ10N
		Dilution Factor: 10		Analysis Time..: 19:45		
Zinc	374	200	ug/L	SW846 6010A	06/24/98	CJ1AQ10P
		Dilution Factor: 10		Analysis Time..: 19:45		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

DISSOLVED Metals

Lot-Sample #...: H8F130129-007 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ1C110Q
		Dilution Factor: 1		Analysis Time..: 11:22		
Prep Batch #...: 8174278						
Aluminum	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1C1101
		Dilution Factor: 10		Analysis Time..: 17:41		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1C110L
		Dilution Factor: 10		Analysis Time..: 14:47		
Lead	ND	30.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C110M
		Dilution Factor: 10		Analysis Time..: 14:47		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CJ1C1102
		Dilution Factor: 10		Analysis Time..: 17:41		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1C1103
		Dilution Factor: 10		Analysis Time..: 17:41		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C110N
		Dilution Factor: 10		Analysis Time..: 14:47		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C1104
		Dilution Factor: 10		Analysis Time..: 17:41		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1C110P
		Dilution Factor: 10		Analysis Time..: 14:47		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C1105
		Dilution Factor: 10		Analysis Time..: 17:41		
Calcium	**207000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C1106**
		Dilution Factor: 10		Analysis Time..: 17:41		
Chromium	ND	100	ug/L	SW846 6010A	06/24/98	CJ1C1107
		Dilution Factor: 10		Analysis Time..: 17:41		
Cobalt	ND	500	ug/L	SW846 6010A	06/24/98	CJ1C1108
		Dilution Factor: 10		Analysis Time..: 17:41		
Copper	ND	250	ug/L	SW846 6010A	06/24/98	CJ1C1109
		Dilution Factor: 10		Analysis Time..: 17:41		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7230

DISSOLVED Metals

Lot-Sample #...: H8F130129-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	1000	ug/L	SW846 6010A	06/24/98	CJ1C110A
		Dilution Factor: 10		Analysis Time..: 17:41		
Magnesium	**52800**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C110C**
		Dilution Factor: 10		Analysis Time..: 17:41		
Manganese	**1680**	**150**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C110D**
		Dilution Factor: 10		Analysis Time..: 17:41		
Nickel	ND	400	ug/L	SW846 6010A	06/24/98	CJ1C110E
		Dilution Factor: 10		Analysis Time..: 17:41		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1C110F
		Dilution Factor: 10		Analysis Time..: 17:41		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CJ1C110G
		Dilution Factor: 10		Analysis Time..: 17:41		
Sodium	**1130000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C110H**
		Dilution Factor: 10		Analysis Time..: 17:41		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CJ1C110J
		Dilution Factor: 10		Analysis Time..: 17:41		
Zinc	ND	200	ug/L	SW846 6010A	06/24/98	CJ1C110K
		Dilution Factor: 10		Analysis Time..: 17:41		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

TOTAL Metals

Lot-Sample #...: H8F130129-002 Matrix.....: WATER
Date Sampled...: 06/12/98 Date Received..: 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ1AT10V
		Dilution Factor: 1		Analysis Time..: 10:30		
Prep Batch #...: 8174272						
Aluminum	7220	200	ug/L	SW846 6010A	06/24/98	CJ1AT105
		Dilution Factor: 1		Analysis Time..: 19:50		
Arsenic	11.1	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AT10Q
		Dilution Factor: 1		Analysis Time..: 17:06		
Lead	9.5	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AT10R
		Dilution Factor: 1		Analysis Time..: 17:06		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ1AT106
		Dilution Factor: 1		Analysis Time..: 19:50		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ1AT107
		Dilution Factor: 1		Analysis Time..: 19:50		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AT10T
		Dilution Factor: 1		Analysis Time..: 17:06		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1AT108
		Dilution Factor: 1		Analysis Time..: 19:50		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AT10U
		Dilution Factor: 1		Analysis Time..: 17:06		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1AT109
		Dilution Factor: 1		Analysis Time..: 19:50		
Calcium	249000	5000	ug/L	SW846 6010A	06/24/98	CJ1AT10A
		Dilution Factor: 1		Analysis Time..: 19:50		
Chromium	16.0	10.0	ug/L	SW846 6010A	06/24/98	CJ1AT10C
		Dilution Factor: 1		Analysis Time..: 19:50		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1AT10D
		Dilution Factor: 1		Analysis Time..: 19:50		
Copper	27.7	25.0	ug/L	SW846 6010A	06/24/98	CJ1AT10E
		Dilution Factor: 1		Analysis Time..: 19:50		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

TOTAL Metals

Lot-Sample #...: H8F130129-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18800	100	ug/L	SW846 6010A	06/24/98	CJ1AT10F
		Dilution Factor: 1		Analysis Time..: 19:50		
Magnesium	71900	5000	ug/L	SW846 6010A	06/24/98	CJ1AT10G
		Dilution Factor: 1		Analysis Time..: 19:50		
Manganese	496	15.0	ug/L	SW846 6010A	06/24/98	CJ1AT10H
		Dilution Factor: 1		Analysis Time..: 19:50		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ1AT10J
		Dilution Factor: 1		Analysis Time..: 19:50		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ1AT10K
		Dilution Factor: 1		Analysis Time..: 19:50		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1AT10L
		Dilution Factor: 1		Analysis Time..: 19:50		
Sodium	29700	5000	ug/L	SW846 6010A	06/24/98	CJ1AT10M
		Dilution Factor: 1		Analysis Time..: 19:50		
Vanadium	52.3	50.0	ug/L	SW846 6010A	06/24/98	CJ1AT10N
		Dilution Factor: 1		Analysis Time..: 19:50		
Zinc	76.0	20.0	ug/L	SW846 6010A	06/24/98	CJ1AT10P
		Dilution Factor: 1		Analysis Time..: 19:50		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

DISSOLVED Metals

Lot-Sample #...: H8F130129-008 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ1C210Q
		Dilution Factor: 1		Analysis Time..: 11:25		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ1C2101
		Dilution Factor: 1		Analysis Time..: 17:46		
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C210L
		Dilution Factor: 1		Analysis Time..: 14:53		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C210M
		Dilution Factor: 1		Analysis Time..: 14:53		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ1C2102
		Dilution Factor: 1		Analysis Time..: 17:46		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ1C2103
		Dilution Factor: 1		Analysis Time..: 17:46		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C210N
		Dilution Factor: 1		Analysis Time..: 14:53		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1C2104
		Dilution Factor: 1		Analysis Time..: 17:46		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C210P
		Dilution Factor: 1		Analysis Time..: 14:53		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1C2105
		Dilution Factor: 1		Analysis Time..: 17:46		
Calcium	**189000**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C2106**
		Dilution Factor: 1		Analysis Time..: 17:46		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1C2107
		Dilution Factor: 1		Analysis Time..: 17:46		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C2108
		Dilution Factor: 1		Analysis Time..: 17:46		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ1C2109
		Dilution Factor: 1		Analysis Time..: 17:46		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7710

DISSOLVED Metals

Lot-Sample #...: H8F130129-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**237**	**100**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C210A**
		Dilution Factor: 1		Analysis Time..: 17:46		
Magnesium	**53800**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C210C**
		Dilution Factor: 1		Analysis Time..: 17:46		
Manganese	**108**	**15.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C210D**
		Dilution Factor: 1		Analysis Time..: 17:46		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ1C210E
		Dilution Factor: 1		Analysis Time..: 17:46		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ1C210F
		Dilution Factor: 1		Analysis Time..: 17:46		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1C210G
		Dilution Factor: 1		Analysis Time..: 17:46		
Sodium	**33500**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C210H**
		Dilution Factor: 1		Analysis Time..: 17:46		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C210J
		Dilution Factor: 1		Analysis Time..: 17:46		
Zinc	ND	20.0	ug/L	SW846 6010A	06/24/98	CJ1C210K
		Dilution Factor: 1		Analysis Time..: 17:46		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

TOTAL Metals

Lot-Sample #...: H8F130129-003 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.40	ug/L	SW846 7470A	06/23-06/24/98	CJ1AV10V
		Dilution Factor: 2		Analysis Time..: 10:32		
Prep Batch #...: 8174272						
Aluminum	**7970**	**2000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AV105**
		Dilution Factor: 10		Analysis Time..: 19:55		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1AV10Q
		Dilution Factor: 10		Analysis Time..: 17:12		
Lead	**38.1**	**30.0**	**ug/L**	**SW846 6010A**	**06/24-07/01/98**	**CJ1AV10R**
		Dilution Factor: 10		Analysis Time..: 17:12		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CJ1AV106
		Dilution Factor: 10		Analysis Time..: 19:55		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1AV107
		Dilution Factor: 10		Analysis Time..: 19:55		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AV10T
		Dilution Factor: 10		Analysis Time..: 17:12		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1AV108
		Dilution Factor: 10		Analysis Time..: 19:55		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1AV10U
		Dilution Factor: 10		Analysis Time..: 17:12		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1AV109
		Dilution Factor: 10		Analysis Time..: 19:55		
Calcium	**281000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AV10A**
		Dilution Factor: 10		Analysis Time..: 19:55		
Chromium	**105**	**100**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AV10C**
		Dilution Factor: 10		Analysis Time..: 19:55		
Cobalt	ND	500	ug/L	SW846 6010A	06/24/98	CJ1AV10D
		Dilution Factor: 10		Analysis Time..: 19:55		
Copper	ND	250	ug/L	SW846 6010A	06/24/98	CJ1AV10E
		Dilution Factor: 10		Analysis Time..: 19:55		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

TOTAL Metals

Lot-Sample #...: H8F130129-003 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	27500	1000	ug/L	SW846 6010A	06/24/98	CJ1AV10F
		Dilution Factor: 10		Analysis Time..: 19:55		
Magnesium	83800	50000	ug/L	SW846 6010A	06/24/98	CJ1AV10G
		Dilution Factor: 10		Analysis Time..: 19:55		
Manganese	927	150	ug/L	SW846 6010A	06/24/98	CJ1AV10H
		Dilution Factor: 10		Analysis Time..: 19:55		
Nickel	ND	400	ug/L	SW846 6010A	06/24/98	CJ1AV10J
		Dilution Factor: 10		Analysis Time..: 19:55		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1AV10K
		Dilution Factor: 10		Analysis Time..: 19:55		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CJ1AV10L
		Dilution Factor: 10		Analysis Time..: 19:55		
Sodium	79400	50000	ug/L	SW846 6010A	06/24/98	CJ1AV10M
		Dilution Factor: 10		Analysis Time..: 19:55		
Vanadium	877	500	ug/L	SW846 6010A	06/24/98	CJ1AV10N
		Dilution Factor: 10		Analysis Time..: 19:55		
Zinc	ND	200	ug/L	SW846 6010A	06/24/98	CJ1AV10P
		Dilution Factor: 10		Analysis Time..: 19:55		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

DISSOLVED Metals

Lot-Sample #...: H8F130129-009 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.40	ug/L	SW846 7470A	06/23-06/24/98	CJ1C3127
		Dilution Factor: 2		Analysis Time..: 11:27		
Prep Batch #...: 8174278						
Aluminum	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1C3101
		Dilution Factor: 10		Analysis Time..: 17:51		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1C311T
		Dilution Factor: 10		Analysis Time..: 14:58		
Lead	ND	30.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C311W
		Dilution Factor: 10		Analysis Time..: 14:58		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CJ1C3104
		Dilution Factor: 10		Analysis Time..: 17:51		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1C3107
		Dilution Factor: 10		Analysis Time..: 17:51		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C3121
		Dilution Factor: 10		Analysis Time..: 14:58		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C310A
		Dilution Factor: 10		Analysis Time..: 17:51		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1C3124
		Dilution Factor: 10		Analysis Time..: 14:58		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C310E
		Dilution Factor: 10		Analysis Time..: 17:51		
Calcium	**405000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C310H**
		Dilution Factor: 10		Analysis Time..: 17:51		
Chromium	ND	100	ug/L	SW846 6010A	06/24/98	CJ1C310L
		Dilution Factor: 10		Analysis Time..: 17:51		
Cobalt	ND	500	ug/L	SW846 6010A	06/24/98	CJ1C310P
		Dilution Factor: 10		Analysis Time..: 17:51		
Copper	ND	250	ug/L	SW846 6010A	06/24/98	CJ1C310T
		Dilution Factor: 10		Analysis Time..: 17:51		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7750

DISSOLVED Metals

Lot-Sample #...: H8F130129-009 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	2400	1000	ug/L	SW846 6010A	06/24/98	CJ1C310W
		Dilution Factor: 10		Analysis Time..: 17:51		
Magnesium	143000	50000	ug/L	SW846 6010A	06/24/98	CJ1C3111
		Dilution Factor: 10		Analysis Time..: 17:51		
Manganese	454	150	ug/L	SW846 6010A	06/24/98	CJ1C3114
		Dilution Factor: 10		Analysis Time..: 17:51		
Nickel	ND	400	ug/L	SW846 6010A	06/24/98	CJ1C3117
		Dilution Factor: 10		Analysis Time..: 17:51		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1C311A
		Dilution Factor: 10		Analysis Time..: 17:51		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CJ1C311E
		Dilution Factor: 10		Analysis Time..: 17:51		
Sodium	256000	50000	ug/L	SW846 6010A	06/24/98	CJ1C311H
		Dilution Factor: 10		Analysis Time..: 17:51		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CJ1C311L
		Dilution Factor: 10		Analysis Time..: 17:51		
Zinc	ND	200	ug/L	SW846 6010A	06/24/98	CJ1C311P
		Dilution Factor: 10		Analysis Time..: 17:51		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

TOTAL Metals

Lot-Sample #...: H8F130129-004 Matrix.....: WATER
Date Sampled...: 06/12/98 Date Received..: 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.40	ug/L	SW846 7470A	06/23-06/24/98	CJ1AW10V
		Dilution Factor: 2		Analysis Time..: 10:34		
Prep Batch #...: 8174272						
Aluminum	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1AW105
		Dilution Factor: 10		Analysis Time..: 20:00		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1AW10Q
		Dilution Factor: 10		Analysis Time..: 17:17		
Lead	**33.0**	**30.0**	**ug/L**	**SW846 6010A**	**06/24-07/01/98**	**CJ1AW10R**
		Dilution Factor: 10		Analysis Time..: 17:17		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CJ1AW106
		Dilution Factor: 10		Analysis Time..: 20:00		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1AW107
		Dilution Factor: 10		Analysis Time..: 20:00		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AW10T
		Dilution Factor: 10		Analysis Time..: 17:17		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1AW108
		Dilution Factor: 10		Analysis Time..: 20:00		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1AW10U
		Dilution Factor: 10		Analysis Time..: 17:17		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1AW109
		Dilution Factor: 10		Analysis Time..: 20:00		
Calcium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1AW10A
		Dilution Factor: 10		Analysis Time..: 20:00		
Chromium	ND	100	ug/L	SW846 6010A	06/24/98	CJ1AW10C
		Dilution Factor: 10		Analysis Time..: 20:00		
Cobalt	ND	500	ug/L	SW846 6010A	06/24/98	CJ1AW10D
		Dilution Factor: 10		Analysis Time..: 20:00		
Copper	ND	250	ug/L	SW846 6010A	06/24/98	CJ1AW10E
		Dilution Factor: 10		Analysis Time..: 20:00		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

TOTAL Metals

Lot-Sample #...: H8F130129-004 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	1000	ug/L	SW846 6010A	06/24/98	CJ1AW10F
		Dilution Factor: 10		Analysis Time..: 20:00		
Magnesium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1AW10G
		Dilution Factor: 10		Analysis Time..: 20:00		
Manganese	ND	150	ug/L	SW846 6010A	06/24/98	CJ1AW10H
		Dilution Factor: 10		Analysis Time..: 20:00		
Nickel	ND	400	ug/L	SW846 6010A	06/24/98	CJ1AW10J
		Dilution Factor: 10		Analysis Time..: 20:00		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1AW10K
		Dilution Factor: 10		Analysis Time..: 20:00		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CJ1AW10L
		Dilution Factor: 10		Analysis Time..: 20:00		
Sodium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1AW10M
		Dilution Factor: 10		Analysis Time..: 20:00		
Vanadium	**1000**	**500**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AW10N**
		Dilution Factor: 10		Analysis Time..: 20:00		
Zinc	ND	200	ug/L	SW846 6010A	06/24/98	CJ1AW10P
		Dilution Factor: 10		Analysis Time..: 20:00		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

DISSOLVED Metals

Lot-Sample #...: H8F130129-010 Matrix.....: WATER
Date Sampled...: 06/12/98 Date Received..: 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.40	ug/L	SW846 7470A	06/23-06/24/98	CJ1C410Q
		Dilution Factor: 2		Analysis Time..: 11:29		
Prep Batch #...: 8174278						
Aluminum	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1C4101
		Dilution Factor: 10		Analysis Time..: 17:56		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1C410L
		Dilution Factor: 10		Analysis Time..: 15:04		
Lead	ND	30.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C410M
		Dilution Factor: 10		Analysis Time..: 15:04		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CJ1C4102
		Dilution Factor: 10		Analysis Time..: 17:56		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1C4103
		Dilution Factor: 10		Analysis Time..: 17:56		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C410N
		Dilution Factor: 10		Analysis Time..: 15:04		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C4104
		Dilution Factor: 10		Analysis Time..: 17:56		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1C410P
		Dilution Factor: 10		Analysis Time..: 15:04		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C4105
		Dilution Factor: 10		Analysis Time..: 17:56		
Calcium	**780000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C4106**
		Dilution Factor: 10		Analysis Time..: 17:56		
Chromium	ND	100	ug/L	SW846 6010A	06/24/98	CJ1C4107
		Dilution Factor: 10		Analysis Time..: 17:56		
Cobalt	**1290**	**500**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C4108**
		Dilution Factor: 10		Analysis Time..: 17:56		
Copper	**531**	**250**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C4109**
		Dilution Factor: 10		Analysis Time..: 17:56		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7790

DISSOLVED Metals

Lot-Sample #...: H8F130129-010 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	3240	1000	ug/L	SW846 6010A	06/24/98	CJ1C410A
		Dilution Factor: 10		Analysis Time..: 17:56		
Magnesium	260000	50000	ug/L	SW846 6010A	06/24/98	CJ1C410C
		Dilution Factor: 10		Analysis Time..: 17:56		
Manganese	1460	150	ug/L	SW846 6010A	06/24/98	CJ1C410D
		Dilution Factor: 10		Analysis Time..: 17:56		
Nickel	2370	400	ug/L	SW846 6010A	06/24/98	CJ1C410E
		Dilution Factor: 10		Analysis Time..: 17:56		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1C410F
		Dilution Factor: 10		Analysis Time..: 17:56		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CJ1C410G
		Dilution Factor: 10		Analysis Time..: 17:56		
Sodium	2560000	50000	ug/L	SW846 6010A	06/24/98	CJ1C410H
		Dilution Factor: 10		Analysis Time..: 17:56		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CJ1C410J
		Dilution Factor: 10		Analysis Time..: 17:56		
Zinc	ND	200	ug/L	SW846 6010A	06/24/98	CJ1C410K
		Dilution Factor: 10		Analysis Time..: 17:56		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

TOTAL Metals

Lot-Sample #...: H8F130129-005 Matrix.....: WATER
Date Sampled...: 06/12/98 Date Received..: 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	0.25	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ1AX10V
		Dilution Factor: 1		Analysis Time..: 10:37		
Prep Batch #...: 8174272						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ1AX105
		Dilution Factor: 1		Analysis Time..: 20:05		
Arsenic	584	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AX10Q
		Dilution Factor: 1		Analysis Time..: 17:34		
Lead	320	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AX10R
		Dilution Factor: 1		Analysis Time..: 17:34		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ1AX106
		Dilution Factor: 1		Analysis Time..: 20:05		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ1AX107
		Dilution Factor: 1		Analysis Time..: 20:05		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AX10T
		Dilution Factor: 1		Analysis Time..: 17:34		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1AX108
		Dilution Factor: 1		Analysis Time..: 20:05		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1AX10U
		Dilution Factor: 1		Analysis Time..: 17:34		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1AX109
		Dilution Factor: 1		Analysis Time..: 20:05		
Calcium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ1AX10A
		Dilution Factor: 1		Analysis Time..: 20:05		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1AX10C
		Dilution Factor: 1		Analysis Time..: 20:05		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1AX10D
		Dilution Factor: 1		Analysis Time..: 20:05		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ1AX10E
		Dilution Factor: 1		Analysis Time..: 20:05		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

TOTAL Metals

Lot-Sample #...: H8F130129-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	06/24/98	CJ1AX10F
		Dilution Factor: 1		Analysis Time..: 20:05		
Magnesium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ1AX10G
		Dilution Factor: 1		Analysis Time..: 20:05		
Manganese	ND	15.0	ug/L	SW846 6010A	06/24/98	CJ1AX10H
		Dilution Factor: 1		Analysis Time..: 20:05		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ1AX10J
		Dilution Factor: 1		Analysis Time..: 20:05		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ1AX10K
		Dilution Factor: 1		Analysis Time..: 20:05		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1AX10L
		Dilution Factor: 1		Analysis Time..: 20:05		
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ1AX10M
		Dilution Factor: 1		Analysis Time..: 20:05		
Vanadium	**101**	**50.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1AX10N**
		Dilution Factor: 1		Analysis Time..: 20:05		
Zinc	ND	20.0	ug/L	SW846 6010A	06/24/98	CJ1AX10P
		Dilution Factor: 1		Analysis Time..: 20:05		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

DISSOLVED Metals

Lot-Sample #...: H8F130129-011 **Matrix.....:** WATER
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ1C510Q
		Dilution Factor: 1		Analysis Time..: 11:32		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ1C5101
		Dilution Factor: 1		Analysis Time..: 18:01		
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C510L
		Dilution Factor: 1		Analysis Time..: 15:21		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C510M
		Dilution Factor: 1		Analysis Time..: 15:21		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ1C5102
		Dilution Factor: 1		Analysis Time..: 18:01		
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ1C5103
		Dilution Factor: 1		Analysis Time..: 18:01		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C510N
		Dilution Factor: 1		Analysis Time..: 15:21		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1C5104
		Dilution Factor: 1		Analysis Time..: 18:01		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1C510P
		Dilution Factor: 1		Analysis Time..: 15:21		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1C5105
		Dilution Factor: 1		Analysis Time..: 18:01		
Calcium	**244000**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1C5106**
		Dilution Factor: 1		Analysis Time..: 18:01		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1C5107
		Dilution Factor: 1		Analysis Time..: 18:01		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C5108
		Dilution Factor: 1		Analysis Time..: 18:01		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ1C5109
		Dilution Factor: 1		Analysis Time..: 18:01		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7910

DISSOLVED Metals

Lot-Sample #...: H8F130129-011 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1260	100	ug/L	SW846 6010A	06/24/98	CJ1C510A
		Dilution Factor: 1		Analysis Time..: 18:01		
Magnesium	80300	5000	ug/L	SW846 6010A	06/24/98	CJ1C510C
		Dilution Factor: 1		Analysis Time..: 18:01		
Manganese	252	15.0	ug/L	SW846 6010A	06/24/98	CJ1C510D
		Dilution Factor: 1		Analysis Time..: 18:01		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ1C510E
		Dilution Factor: 1		Analysis Time..: 18:01		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ1C510F
		Dilution Factor: 1		Analysis Time..: 18:01		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1C510G
		Dilution Factor: 1		Analysis Time..: 18:01		
Sodium	140000	5000	ug/L	SW846 6010A	06/24/98	CJ1C510H
		Dilution Factor: 1		Analysis Time..: 18:01		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1C510J
		Dilution Factor: 1		Analysis Time..: 18:01		
Zinc	ND	20.0	ug/L	SW846 6010A	06/24/98	CJ1C510K
		Dilution Factor: 1		Analysis Time..: 18:01		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

TOTAL Metals

Lot-Sample #...: H8F150105-001 Matrix.....: WATER
Date Sampled...: 06/13/98 Date Received..: 06/15/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.40	ug/L	SW846 7470A	06/23-06/24/98	CJ1QG10U
		Dilution Factor: 2		Analysis Time..: 10:39		
Prep Batch #...: 8174272						
Aluminum	15500	2000	ug/L	SW846 6010A	06/24/98	CJ1QG104
		Dilution Factor: 10		Analysis Time..: 20:10		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1QG10P
		Dilution Factor: 10		Analysis Time..: 17:39		
Lead	ND	30.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QG10Q
		Dilution Factor: 10		Analysis Time..: 17:39		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CJ1QG105
		Dilution Factor: 10		Analysis Time..: 20:10		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1QG106
		Dilution Factor: 10		Analysis Time..: 20:10		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QG10R
		Dilution Factor: 10		Analysis Time..: 17:39		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1QG107
		Dilution Factor: 10		Analysis Time..: 20:10		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1QG10T
		Dilution Factor: 10		Analysis Time..: 17:39		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1QG108
		Dilution Factor: 10		Analysis Time..: 20:10		
Calcium	283000	50000	ug/L	SW846 6010A	06/24/98	CJ1QG109
		Dilution Factor: 10		Analysis Time..: 20:10		
Chromium	ND	100	ug/L	SW846 6010A	06/24/98	CJ1QG10A
		Dilution Factor: 10		Analysis Time..: 20:10		
Cobalt	668	500	ug/L	SW846 6010A	06/24/98	CJ1QG10C
		Dilution Factor: 10		Analysis Time..: 20:10		
Copper	510	250	ug/L	SW846 6010A	06/24/98	CJ1QG10D
		Dilution Factor: 10		Analysis Time..: 20:10		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

TOTAL Metals

Lot-Sample #...: H8F150105-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	40200	1000	ug/L	SW846 6010A	06/24/98	CJ1QG10E
		Dilution Factor: 10		Analysis Time..: 20:10		
Magnesium	88000	50000	ug/L	SW846 6010A	06/24/98	CJ1QG10F
		Dilution Factor: 10		Analysis Time..: 20:10		
Manganese	2080	150	ug/L	SW846 6010A	06/24/98	CJ1QG10G
		Dilution Factor: 10		Analysis Time..: 20:10		
Nickel	468	400	ug/L	SW846 6010A	06/24/98	CJ1QG10H
		Dilution Factor: 10		Analysis Time..: 20:10		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1QG10J
		Dilution Factor: 10		Analysis Time..: 20:10		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CJ1QG10K
		Dilution Factor: 10		Analysis Time..: 20:10		
Sodium	1180000	50000	ug/L	SW846 6010A	06/24/98	CJ1QG10L
		Dilution Factor: 10		Analysis Time..: 20:10		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CJ1QG10M
		Dilution Factor: 10		Analysis Time..: 20:10		
Zinc	ND	200	ug/L	SW846 6010A	06/24/98	CJ1QG10N
		Dilution Factor: 10		Analysis Time..: 20:10		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

DISSOLVED Metals

Lot-Sample #...: H8F150105-004 Matrix.....: WATER
Date Sampled...: 06/13/98 Date Received..: 06/15/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.40	ug/L	SW846 7470A	06/23-06/24/98	CJ1QM10Q
		Dilution Factor: 2		Analysis Time..: 11:34		
Prep Batch #...: 8174278						
Aluminum	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1QM101
		Dilution Factor: 10		Analysis Time..: 18:05		
Arsenic	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1QM10L
		Dilution Factor: 10		Analysis Time..: 15:26		
Lead	ND	30.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QM10M
		Dilution Factor: 10		Analysis Time..: 15:26		
Antimony	ND	600	ug/L	SW846 6010A	06/24/98	CJ1QM102
		Dilution Factor: 10		Analysis Time..: 18:05		
Barium	ND	2000	ug/L	SW846 6010A	06/24/98	CJ1QM103
		Dilution Factor: 10		Analysis Time..: 18:05		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QM10N
		Dilution Factor: 10		Analysis Time..: 15:26		
Beryllium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1QM104
		Dilution Factor: 10		Analysis Time..: 18:05		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1QM10P
		Dilution Factor: 10		Analysis Time..: 15:26		
Cadmium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1QM105
		Dilution Factor: 10		Analysis Time..: 18:05		
Calcium	**212000**	**50000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QM106**
		Dilution Factor: 10		Analysis Time..: 18:05		
Chromium	ND	100	ug/L	SW846 6010A	06/24/98	CJ1QM107
		Dilution Factor: 10		Analysis Time..: 18:05		
Cobalt	**784**	**500**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QM108**
		Dilution Factor: 10		Analysis Time..: 18:05		
Copper	**568**	**250**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QM109**
		Dilution Factor: 10		Analysis Time..: 18:05		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7830

DISSOLVED Metals

Lot-Sample #...: H8F150105-004 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1950	1000	ug/L	SW846 6010A	06/24/98	CJ1QM10A
		Dilution Factor: 10		Analysis Time..: 18:05		
Magnesium	67700	50000	ug/L	SW846 6010A	06/24/98	CJ1QM10C
		Dilution Factor: 10		Analysis Time..: 18:05		
Manganese	1700	150	ug/L	SW846 6010A	06/24/98	CJ1QM10D
		Dilution Factor: 10		Analysis Time..: 18:05		
Nickel	441	400	ug/L	SW846 6010A	06/24/98	CJ1QM10E
		Dilution Factor: 10		Analysis Time..: 18:05		
Potassium	ND	50000	ug/L	SW846 6010A	06/24/98	CJ1QM10F
		Dilution Factor: 10		Analysis Time..: 18:05		
Silver	ND	100	ug/L	SW846 6010A	06/24/98	CJ1QM10G
		Dilution Factor: 10		Analysis Time..: 18:05		
Sodium	1450000	50000	ug/L	SW846 6010A	06/24/98	CJ1QM10H
		Dilution Factor: 10		Analysis Time..: 18:05		
Vanadium	ND	500	ug/L	SW846 6010A	06/24/98	CJ1QM10J
		Dilution Factor: 10		Analysis Time..: 18:05		
Zinc	ND	200	ug/L	SW846 6010A	06/24/98	CJ1QM10K
		Dilution Factor: 10		Analysis Time..: 18:05		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

TOTAL Metals

Lot-Sample #...: H8F150105-002 Matrix.....: WATER
Date Sampled...: 06/13/98 Date Received..: 06/15/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174139						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ1QK10U
		Dilution Factor: 1		Analysis Time..: 10:41		
Prep Batch #...: 8174272						
Aluminum	118000	200	ug/L	SW846 6010A	06/24/98	CJ1QK104
		Dilution Factor: 1		Analysis Time..: 20:15		
Arsenic	122	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1QK10P
		Dilution Factor: 10		Analysis Time..: 17:45		
Lead	142	30.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QK10Q
		Dilution Factor: 10		Analysis Time..: 17:45		
Antimony	77.8	60.0	ug/L	SW846 6010A	06/24/98	CJ1QK105
		Dilution Factor: 1		Analysis Time..: 20:15		
Barium	1020	200	ug/L	SW846 6010A	06/24/98	CJ1QK106
		Dilution Factor: 1		Analysis Time..: 20:15		
Selenium	ND	50.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QK10R
		Dilution Factor: 10		Analysis Time..: 17:45		
Beryllium	5.5	5.0	ug/L	SW846 6010A	06/24/98	CJ1QK107
		Dilution Factor: 1		Analysis Time..: 20:15		
Thallium	ND	100	ug/L	SW846 6010A	06/24-07/01/98	CJ1QK10T
		Dilution Factor: 10		Analysis Time..: 17:45		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1QK108
		Dilution Factor: 1		Analysis Time..: 20:15		
Calcium	787000	50000	ug/L	SW846 6010A	06/24-06/26/98	CJ1QK109
		Dilution Factor: 10		Analysis Time..: 12:57		
Chromium	176	10.0	ug/L	SW846 6010A	06/24/98	CJ1QK10A
		Dilution Factor: 1		Analysis Time..: 20:15		
Cobalt	140	50.0	ug/L	SW846 6010A	06/24/98	CJ1QK10C
		Dilution Factor: 1		Analysis Time..: 20:15		
Copper	334	25.0	ug/L	SW846 6010A	06/24/98	CJ1QK10D
		Dilution Factor: 1		Analysis Time..: 20:15		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

TOTAL Metals

Lot-Sample #...: H8F150105-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	266000	100	ug/L	SW846 6010A	06/24/98	CJ1QK10E
		Dilution Factor: 1		Analysis Time..: 20:15		
Magnesium	240000	5000	ug/L	SW846 6010A	06/24/98	CJ1QK10F
		Dilution Factor: 1		Analysis Time..: 20:15		
Manganese	5940	15.0	ug/L	SW846 6010A	06/24/98	CJ1QK10G
		Dilution Factor: 1		Analysis Time..: 20:15		
Nickel	338	40.0	ug/L	SW846 6010A	06/24/98	CJ1QK10H
		Dilution Factor: 1		Analysis Time..: 20:15		
Potassium	20800	5000	ug/L	SW846 6010A	06/24/98	CJ1QK10J
		Dilution Factor: 1		Analysis Time..: 20:15		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1QK10K
		Dilution Factor: 1		Analysis Time..: 20:15		
Sodium	14500	5000	ug/L	SW846 6010A	06/24/98	CJ1QK10L
		Dilution Factor: 1		Analysis Time..: 20:15		
Vanadium	288	50.0	ug/L	SW846 6010A	06/24/98	CJ1QK10M
		Dilution Factor: 1		Analysis Time..: 20:15		
Zinc	799	20.0	ug/L	SW846 6010A	06/24/98	CJ1QK10N
		Dilution Factor: 1		Analysis Time..: 20:15		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

DISSOLVED Metals

Lot-Sample #...: H8F150105-005 Matrix.....: WATER
Date Sampled...: 06/13/98 Date Received..: 06/15/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ1QN10Q
		Dilution Factor: 1		Analysis Time..: 11:37		
Prep Batch #...: 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ1QN101
		Dilution Factor: 1		Analysis Time..: 18:10		
Arsenic	**22.9**	**10.0**	**ug/L**	**SW846 6010A**	**06/24-07/01/98**	**CJ1QN10L**
		Dilution Factor: 1		Analysis Time..: 15:32		
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QN10M
		Dilution Factor: 1		Analysis Time..: 15:32		
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ1QN102
		Dilution Factor: 1		Analysis Time..: 18:10		
Barium	**237**	**200**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QN103**
		Dilution Factor: 1		Analysis Time..: 18:10		
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QN10N
		Dilution Factor: 1		Analysis Time..: 15:32		
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1QN104
		Dilution Factor: 1		Analysis Time..: 18:10		
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ1QN10P
		Dilution Factor: 1		Analysis Time..: 15:32		
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ1QN105
		Dilution Factor: 1		Analysis Time..: 18:10		
Calcium	**63400**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QN106**
		Dilution Factor: 1		Analysis Time..: 18:10		
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1QN107
		Dilution Factor: 1		Analysis Time..: 18:10		
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1QN108
		Dilution Factor: 1		Analysis Time..: 18:10		
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ1QN109
		Dilution Factor: 1		Analysis Time..: 18:10		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7950

DISSOLVED Metals

Lot-Sample #...: H8F150105-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**119**	**100**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QN10A**
		Dilution Factor: 1		Analysis Time..: 18:10		
Magnesium	**16400**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QN10C**
		Dilution Factor: 1		Analysis Time..: 18:10		
Manganese	**28.4**	**15.0**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QN10D**
		Dilution Factor: 1		Analysis Time..: 18:10		
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ1QN10E
		Dilution Factor: 1		Analysis Time..: 18:10		
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ1QN10F
		Dilution Factor: 1		Analysis Time..: 18:10		
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ1QN10G
		Dilution Factor: 1		Analysis Time..: 18:10		
Sodium	**11500**	**5000**	**ug/L**	**SW846 6010A**	**06/24/98**	**CJ1QN10H**
		Dilution Factor: 1		Analysis Time..: 18:10		
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ1QN10J
		Dilution Factor: 1		Analysis Time..: 18:10		
Zinc	ND	20.0	ug/L	SW846 6010A	06/24/98	CJ1QN10K
		Dilution Factor: 1		Analysis Time..: 18:10		

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F230000-139 **Prep Batch #...:** 8174139						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ7WK101
		Dilution Factor: 1				
		Analysis Time..: 09:54				
MB Lot-Sample #: H8F230000-272 **Prep Batch #...:** 8174272						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ8KC10K
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ8KC10F
		Dilution Factor: 1				
		Analysis Time..: 13:19				
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ8KC10L
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ8KC10G
		Dilution Factor: 1				
		Analysis Time..: 13:19				
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ8KC10M
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ8KC10H
		Dilution Factor: 1				
		Analysis Time..: 13:19				
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ8KC10N
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ8KC10J
		Dilution Factor: 1				
		Analysis Time..: 13:19				
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ8KC10P
		Dilution Factor: 1				
		Analysis Time..: 16:04				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ8KC101
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ8KC102
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ8KC103
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ8KC104
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Iron	ND	100	ug/L	SW846 6010A	06/24/98	CJ8KC105
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Magnesium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ8KC106
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Manganese	ND	15.0	ug/L	SW846 6010A	06/24/98	CJ8KC107
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ8KC108
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ8KC109
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ8KC10A
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ8KC10C
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ8KC10D
		Dilution Factor: 1				
		Analysis Time..: 16:04				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010A	06/24/98	CJ8KC10E

Dilution Factor: 1

Analysis Time..: 16:04

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F230000-140 **Prep Batch #...:** 8174140						
Mercury	ND	0.20	ug/L	SW846 7470A	06/23-06/24/98	CJ7WR101
		Dilution Factor: 1				
		Analysis Time..: 10:43				
MB Lot-Sample #: H8F230000-278 **Prep Batch #...:** 8174278						
Aluminum	ND	200	ug/L	SW846 6010A	06/24/98	CJ8L610F
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Arsenic	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ8L610A
		Dilution Factor: 1				
		Analysis Time..: 13:08				
Antimony	ND	60.0	ug/L	SW846 6010A	06/24/98	CJ8L610G
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Lead	ND	3.0	ug/L	SW846 6010A	06/24-07/01/98	CJ8L610C
		Dilution Factor: 1				
		Analysis Time..: 13:08				
Barium	ND	200	ug/L	SW846 6010A	06/24/98	CJ8L610H
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Selenium	ND	5.0	ug/L	SW846 6010A	06/24-07/01/98	CJ8L610D
		Dilution Factor: 1				
		Analysis Time..: 13:08				
Beryllium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ8L610J
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Thallium	ND	10.0	ug/L	SW846 6010A	06/24-07/01/98	CJ8L610E
		Dilution Factor: 1				
		Analysis Time..: 13:08				
Cadmium	ND	5.0	ug/L	SW846 6010A	06/24/98	CJ8L610K
		Dilution Factor: 1				
		Analysis Time..: 16:16				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ8L610L
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Chromium	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ8L610M
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Cobalt	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ8L610N
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Copper	ND	25.0	ug/L	SW846 6010A	06/24/98	CJ8L610P
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Iron	ND	100	ug/L	SW846 6010A	06/24/98	CJ8L6101
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Magnesium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ8L6102
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Manganese	ND	15.0	ug/L	SW846 6010A	06/24/98	CJ8L6103
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Nickel	ND	40.0	ug/L	SW846 6010A	06/24/98	CJ8L6104
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Potassium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ8L6105
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Silver	ND	10.0	ug/L	SW846 6010A	06/24/98	CJ8L6106
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Sodium	ND	5000	ug/L	SW846 6010A	06/24/98	CJ8L6107
		Dilution Factor: 1				
		Analysis Time..: 16:16				
Vanadium	ND	50.0	ug/L	SW846 6010A	06/24/98	CJ8L6108
		Dilution Factor: 1				
		Analysis Time..: 16:16				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010A	06/24/98	CJ8L6109

Dilution Factor: 1

Analysis Time..: 16:16

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F100194-001 **Prep Batch #...:** 8174272							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ12F
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ12G
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Arsenic	75 N	(80 - 120)			SW846 6010A	06/24-07/01/98	CHWHQ126
	73 N	(80 - 120)	2.4	(0-20)	SW846 6010A	06/24-07/01/98	CHWHQ127
		Dilution Factor: 4					
		Analysis Time..: 15:48					
Antimony	12 N	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ12H
	16 N	(80 - 120)	9.2	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ12J
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Lead	73 N	(80 - 120)			SW846 6010A	06/24-07/01/98	CHWHQ128
	71 N	(80 - 120)	0.95	(0-20)	SW846 6010A	06/24-07/01/98	CHWHQ129
		Dilution Factor: 4					
		Analysis Time..: 15:48					
Barium	90	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ12K
	79 N	(80 - 120)	6.2	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ12L
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Selenium	74 N	(80 - 120)			SW846 6010A	06/24-07/01/98	CHWHQ12A
	72 N	(80 - 120)	3.3	(0-20)	SW846 6010A	06/24-07/01/98	CHWHQ12C
		Dilution Factor: 4					
		Analysis Time..: 15:48					
Beryllium	98	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ12M
	87	(80 - 120)	9.2	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ12N
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Thallium	65 N	(80 - 120)			SW846 6010A	06/24-07/01/98	CHWHQ12D
	62 N	(80 - 120)	4.2	(0-20)	SW846 6010A	06/24-07/01/98	CHWHQ12E
		Dilution Factor: 4					
		Analysis Time..: 15:48					
Cadmium	84	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ12P
	88	(80 - 120)	3.5	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ12Q
		Dilution Factor: 5					
		Analysis Time..: 12:07					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	NC,MSB	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11A
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11C
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Chromium	115	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11D
	93	(80 - 120)	5.6	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11E
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Cobalt	85	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11F
	77 N	(80 - 120)	7.0	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11G
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Copper	84	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11H
	65 N	(80 - 120)	5.5	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11J
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Iron	NC,MSB	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11K
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11L
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Magnesium	NC,MSB	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11M
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11N
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Manganese	NC,MSB	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11P
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11Q
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Nickel	92	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11R
	76 N	(80 - 120)	6.6	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11T
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Potassium	NC,MSB	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11U
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11V
		Dilution Factor: 5					
		Analysis Time..: 12:07					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	93	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ11W
	84	(80 - 120)	9.8	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ11X
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Sodium	NC,MSB	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ120
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ121
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Vanadium	95	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ122
	81	(80 - 120)	5.8	(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ123
		Dilution Factor: 5					
		Analysis Time..: 12:07					
Zinc	NC,MSB	(80 - 120)			SW846 6010A	06/24-06/26/98	CHWHQ124
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/24-06/26/98	CHWHQ125
		Dilution Factor: 5					
		Analysis Time..: 12:07					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F100194-002 **Prep Batch #...:** 8174278							
Aluminum	99	(80 - 120)			SW846 6010A	06/24/98	CHWJ311P
	98	(80 - 120)	0.80	(0-20)	SW846 6010A	06/24/98	CHWJ311Q
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Arsenic	90	(80 - 120)			SW846 6010A	06/24-07/01/98	CHWJ311F
	91	(80 - 120)	0.39	(0-20)	SW846 6010A	06/24-07/01/98	CHWJ311G
		Dilution Factor: 1					
		Analysis Time..: 13:46					
Antimony	114	(80 - 120)			SW846 6010A	06/24/98	CHWJ311R
	113	(80 - 120)	0.80	(0-20)	SW846 6010A	06/24/98	CHWJ311T
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Lead	88	(80 - 120)			SW846 6010A	06/24-07/01/98	CHWJ311H
	89	(80 - 120)	0.71	(0-20)	SW846 6010A	06/24-07/01/98	CHWJ311J
		Dilution Factor: 1					
		Analysis Time..: 13:46					
Barium	91	(80 - 120)			SW846 6010A	06/24/98	CHWJ311U
	91	(80 - 120)	0.12	(0-20)	SW846 6010A	06/24/98	CHWJ311V
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Selenium	92	(80 - 120)			SW846 6010A	06/24-07/01/98	CHWJ311K
	92	(80 - 120)	0.41	(0-20)	SW846 6010A	06/24-07/01/98	CHWJ311L
		Dilution Factor: 1					
		Analysis Time..: 13:46					
Beryllium	100	(80 - 120)			SW846 6010A	06/24/98	CHWJ311W
	100	(80 - 120)	0.0	(0-20)	SW846 6010A	06/24/98	CHWJ311X
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Thallium	85	(80 - 120)			SW846 6010A	06/24-07/01/98	CHWJ311M
	86	(80 - 120)	0.22	(0-20)	SW846 6010A	06/24-07/01/98	CHWJ311N
		Dilution Factor: 1					
		Analysis Time..: 13:46					
Cadmium	112	(80 - 120)			SW846 6010A	06/24/98	CHWJ3120
	111	(80 - 120)	1.5	(0-20)	SW846 6010A	06/24/98	CHWJ3121
		Dilution Factor: 1					
		Analysis Time..: 16:46					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	115	(80 - 120)			SW846 6010A	06/24/98	CHWJ3122
	112	(80 - 120)	0.74	(0-20)	SW846 6010A	06/24/98	CHWJ3123
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Chromium	101	(80 - 120)			SW846 6010A	06/24/98	CHWJ3124
	101	(80 - 120)	0.48	(0-20)	SW846 6010A	06/24/98	CHWJ3125
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Cobalt	99	(80 - 120)			SW846 6010A	06/24/98	CHWJ3126
	99	(80 - 120)	0.05	(0-20)	SW846 6010A	06/24/98	CHWJ3127
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Copper	93	(80 - 120)			SW846 6010A	06/24/98	CHWJ3128
	93	(80 - 120)	0.06	(0-20)	SW846 6010A	06/24/98	CHWJ3129
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Iron	98	(80 - 120)			SW846 6010A	06/24/98	CHWJ310U
	97	(80 - 120)	0.32	(0-20)	SW846 6010A	06/24/98	CHWJ310V
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Magnesium	105	(80 - 120)			SW846 6010A	06/24/98	CHWJ310W
	104	(80 - 120)	0.17	(0-20)	SW846 6010A	06/24/98	CHWJ310X
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Manganese	95	(80 - 120)			SW846 6010A	06/24/98	CHWJ3110
	95	(80 - 120)	0.45	(0-20)	SW846 6010A	06/24/98	CHWJ3111
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Nickel	97	(80 - 120)			SW846 6010A	06/24/98	CHWJ3112
	99	(80 - 120)	1.5	(0-20)	SW846 6010A	06/24/98	CHWJ3113
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Potassium	96	(80 - 120)			SW846 6010A	06/24/98	CHWJ3114
	96	(80 - 120)	0.73	(0-20)	SW846 6010A	06/24/98	CHWJ3115
		Dilution Factor: 1					
		Analysis Time..: 16:46					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	96	(80 - 120)			SW846 6010A	06/24/98	CHWJ3116
	93	(80 - 120)	2.5	(0-20)	SW846 6010A	06/24/98	CHWJ3117
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Sodium	94	(80 - 120)			SW846 6010A	06/24/98	CHWJ3118
	95	(80 - 120)	0.38	(0-20)	SW846 6010A	06/24/98	CHWJ3119
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Vanadium	96	(80 - 120)			SW846 6010A	06/24/98	CHWJ311A
	96	(80 - 120)	0.0	(0-20)	SW846 6010A	06/24/98	CHWJ311C
		Dilution Factor: 1					
		Analysis Time..: 16:46					
Zinc	102	(80 - 120)			SW846 6010A	06/24/98	CHWJ311D
	98	(80 - 120)	3.7	(0-20)	SW846 6010A	06/24/98	CHWJ311E
		Dilution Factor: 1					
		Analysis Time..: 16:46					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8F230000-139 **Prep Batch #...:** 8174139					
Mercury	103	(80 - 120)	SW846 7470A Dilution Factor: 1 Analysis Time..: 09:56	06/23-06/24/98	CJ7WK102
LCS Lot-Sample#: H8F230000-272 **Prep Batch #...:** 8174272					
Calcium	102	(82 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC10Q
Chromium	98	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC10R
Cobalt	98	(83 - 115)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC10T
Copper	92	(82 - 116)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC10U
Iron	96	(87 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC10V
Magnesium	99	(82 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC10W
Manganese	94	(86 - 116)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC10X
Aluminum	96	(83 - 117)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC11A
Antimony	110	(87 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:11	06/24/98	CJ8KC11C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium	89	(82 - 112)	SW846 6010A	06/24/98	CJ8KC11D
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Beryllium	98	(80 - 120)	SW846 6010A	06/24/98	CJ8KC11E
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Cadmium	118	(81 - 118)	SW846 6010A	06/24/98	CJ8KC11F
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Nickel	96	(83 - 120)	SW846 6010A	06/24/98	CJ8KC110
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Potassium	92	(81 - 115)	SW846 6010A	06/24/98	CJ8KC111
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Silver	96	(80 - 120)	SW846 6010A	06/24/98	CJ8KC112
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Sodium	93	(82 - 114)	SW846 6010A	06/24/98	CJ8KC113
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Vanadium	96	(88 - 117)	SW846 6010A	06/24/98	CJ8KC114
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Zinc	99	(85 - 120)	SW846 6010A	06/24/98	CJ8KC115
		Dilution Factor: 1			
		Analysis Time..: 16:11			
Arsenic	88	(82 - 110)	SW846 6010A	06/24-07/01/98	CJ8KC116
		Dilution Factor: 1			
		Analysis Time..: 13:24			
Lead	88	(81 - 111)	SW846 6010A	06/24-07/01/98	CJ8KC117
		Dilution Factor: 1			
		Analysis Time..: 13:24			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	90	(81 - 113)	SW846 6010A	06/24-07/01/98	CJ8KC118
		Dilution Factor: 1			
		Analysis Time..: 13:24			
Thallium	84	(80 - 110)	SW846 6010A	06/24-07/01/98	CJ8KC119
		Dilution Factor: 1			
		Analysis Time..: 13:24			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8F230000-140 **Prep Batch #...:** 8174140					
Mercury	103	(80 - 120)	SW846 7470A Dilution Factor: 1 Analysis Time..: 10:51	06/23-06/24/98	CJ7WR102
LCS Lot-Sample#: H8F230000-278 **Prep Batch #...:** 8174278					
Iron	99	(87 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L610Q
Magnesium	104	(82 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L610R
Manganese	98	(86 - 116)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L610T
Nickel	100	(83 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L610U
Potassium	97	(81 - 115)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L610V
Silver	100	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L610W
Sodium	98	(82 - 114)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L610X
Cadmium	116	(81 - 118)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L611A
Calcium	111	(82 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 16:21	06/24/98	CJ8L611C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	103	(80 - 120)	SW846 6010A	06/24/98	CJ8L611D
		Dilution Factor: 1			
		Analysis Time..: 16:21			
Cobalt	103	(83 - 115)	SW846 6010A	06/24/98	CJ8L611E
		Dilution Factor: 1			
		Analysis Time..: 16:21			
Copper	95	(82 - 116)	SW846 6010A	06/24/98	CJ8L611F
		Dilution Factor: 1			
		Analysis Time..: 16:21			
Vanadium	101	(88 - 117)	SW846 6010A	06/24/98	CJ8L6110
		Dilution Factor: 1			
		Analysis Time..: 16:21			
Zinc	118	(85 - 120)	SW846 6010A	06/24/98	CJ8L6111
		Dilution Factor: 1			
		Analysis Time..: 16:21			
Arsenic	92	(82 - 110)	SW846 6010A	06/24-07/01/98	CJ8L6112
		Dilution Factor: 1			
		Analysis Time..: 13:13			
Lead	92	(81 - 111)	SW846 6010A	06/24-07/01/98	CJ8L6113
		Dilution Factor: 1			
		Analysis Time..: 13:13			
Selenium	94	(81 - 113)	SW846 6010A	06/24-07/01/98	CJ8L6114
		Dilution Factor: 1			
		Analysis Time..: 13:13			
Thallium	87	(80 - 110)	SW846 6010A	06/24-07/01/98	CJ8L6115
		Dilution Factor: 1			
		Analysis Time..: 13:13			
Aluminum	99	(83 - 117)	SW846 6010A	06/24/98	CJ8L6116
		Dilution Factor: 1			
		Analysis Time..: 16:21			
Antimony	115	(87 - 120)	SW846 6010A	06/24/98	CJ8L6117
		Dilution Factor: 1			
		Analysis Time..: 16:21			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

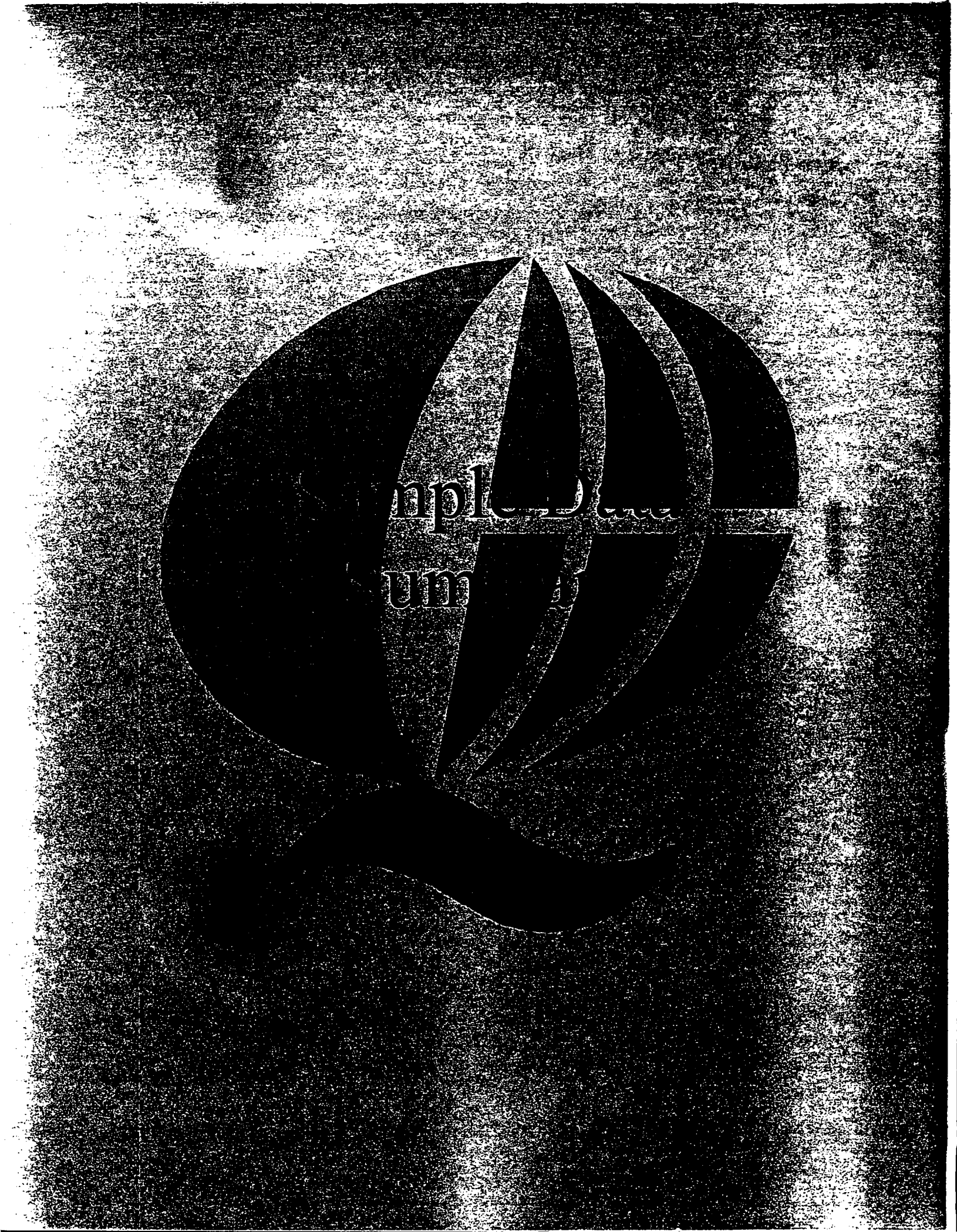
DISSOLVED Metals

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium	94	(82 - 112)	SW846 6010A	06/24/98	CJ8L6118
		Dilution Factor: 1			
		Analysis Time..: 16:21			
Beryllium	103	(80 - 120)	SW846 6010A	06/24/98	CJ8L6119
		Dilution Factor: 1			
		Analysis Time..: 16:21			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.



IT CORPORATION - KNOXVILLE

Client Sample ID: 7310

General Chemistry

Lot-Sample #...: H8F090176-001 Work Order #...: CHVK6 Matrix.....: WATER
Date Sampled...: 06/08/98 Date Received..: 06/09/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH 4.5	1500	5.0	mg/L	MCAWW 310.1	06/16/98	8168153
	Dilution Factor: 1					
Chloride - Automated	ND DIL	1000	mg/L	MCAWW 325.2	06/15/98	8166318
	Dilution Factor: 1000					
Hardness, as CaCO3	3400	100	mg/L	MCAWW 130.2	06/16/98	8168157
	Dilution Factor: 50					
Nitrate	130	100	mg/L	MCAWW 353.2	06/17/98	8174187
	Dilution Factor: 1000					
Nitrate as N	465	50.0	mg/L	MCAWW 300.0A	06/09/98	8161154
	Dilution Factor: 100					
Sulfate	10000	2000	mg/L	MCAWW 375.4	06/26/98	8177243
	Dilution Factor: 400					
Total Cyanide	0.78	0.10	mg/L	SW846 9010A	06/13/98	8164126
	Dilution Factor: 10					
Total Dissolved Solids	15000	100	mg/L	MCAWW 160.1	06/12-06/16/98	8169243
	Dilution Factor: 10					
Total Organic Carbon	6600	1000	mg/L	SW846 9060	06/16-06/17/98	8169170
	Dilution Factor: 1000					
Total Suspended Solids	110	4.0	mg/L	MCAWW 160.2	06/12-06/16/98	8169245
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

TOC range: 6579 - 6643

IT CORPORATION - KNOXVILLE

Client Sample ID: 7350

General Chemistry

Lot-Sample #...: H8F100194-001 **Work Order #...:** CHWHQ **Matrix.....:** WATER
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH 4.5	263	5.0	mg/L	MCAWW 310.1	06/16/98	8168153
	Dilution Factor: 1					
Chloride - Automated	2.3	1.0	mg/L	MCAWW 325.2	06/15/98	8166318
	Dilution Factor: 1					
Hardness, as CaCO3	940	10.0	mg/L	MCAWW 130.2	06/16/98	8168157
	Dilution Factor: 5					
Nitrate	ND	0.10	mg/L	MCAWW 353.2	06/17/98	8174187
	Dilution Factor: 1					
Nitrate as N	ND	0.50	mg/L	MCAWW 300.0A	06/11/98	8188169
	Dilution Factor: 1					
Sulfate	22.7	5.0	mg/L	MCAWW 375.4	06/26/98	8177243
	Dilution Factor: 1					
Total Cyanide	ND	0.010	mg/L	SW846 9010A	06/13/98	8164126
	Dilution Factor: 1					
Total Dissolved Solids	401	10.0	mg/L	MCAWW 160.1	06/12-06/16/98	8169243
	Dilution Factor: 1					
Total Organic Carbon	ND	10.0	mg/L	SW846 9060	06/26/98	8180133
	Dilution Factor: 10					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	06/12-06/16/98	8169245
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

TOC range: 7.1 - 11.2

METHOD BLANK REPORT

General Chemistry

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH		Work Order #: CJ38J101		MB Lot-Sample #:	B8F170000-153	
	ND	5.0	mg/L	MCAWW 310.1	06/16/98	8168153
		Dilution Factor: 1				
Chloride - Automated		Work Order #: CJ24L101		MB Lot-Sample #:	B8F150000-318	
	ND	1	mg/L	MCAWW 325.2	06/15/98	8166318
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: CJ38M101		MB Lot-Sample #:	B8F170000-157	
	ND	2	mg/L	MCAWW 130.2	06/16/98	8168157
		Dilution Factor: 1				
Nitrate		Work Order #: CJ96M101		MB Lot-Sample #:	B8F230000-187	
	ND	0.1	mg/L	MCAWW 353.2	06/17/98	8174187
		Dilution Factor: 1				
Nitrate as N		Work Order #: CHVNG101		MB Lot-Sample #:	B8F100000-154	
	ND	0.50	mg/L	MCAWW 300.0A	06/09/98	8161154
		Dilution Factor: 1				
Nitrate as N		Work Order #: CJK68101		MB Lot-Sample #:	B8G070000-169	
	ND	0.50	mg/L	MCAWW 300.0A	06/11/98	8188169
		Dilution Factor: 1				
Sulfate		Work Order #: CJEDV101		MB Lot-Sample #:	B8F260000-243	
	ND	5	mg/L	MCAWW 375.4	06/26/98	8177243
		Dilution Factor: 1				
Total Cyanide		Work Order #: CJ178101		MB Lot-Sample #:	B8F130000-126	
	ND	0.010	mg/L	SW846 9010A	06/13/98	8164126
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: CJ4N5101		MB Lot-Sample #:	B8F180000-243	
	ND	10	mg/L	MCAWW 160.1	06/12-06/16/98	8169243
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: CJ4DV101		MB Lot-Sample #:	B8F180000-170	
	ND	1	mg/L	SW846 9060	06/16/98	8169170
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: CJEE4101		MB Lot-Sample #:	B8F290000-133	
	ND	1	mg/L	SW846 9060	06/26/98	8180133
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		Work Order #: CJ4ND101		MB Lot-Sample #:	B8F180000-245	
	ND	4.0	mg/L	MCAWW 160.2	06/12-06/16/98	8169245
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: PB027 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH		WO#:	CHRJX10M-MS/CHRJX10N-MSD			MS Lot-Sample #:	B8F060103-004
	105	(90 - 110)			MCAWW 310.1	06/16/98	8168153
	103	(90 - 110)	1.6	(0-20)	MCAWW 310.1	06/16/98	8168153
		Dilution Factor: 1					
Chloride - Automated		WO#:	CHMK2137-MS/CHMK2138-MSD			MS Lot-Sample #:	H8F020185-001
	95	(90 - 114)			MCAWW 325.2	06/15/98	8166318
	98	(90 - 114)	1.9	(0-12)	MCAWW 325.2	06/15/98	8166318
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	CHVK6117-MS/CHVK6118-MSD			MS Lot-Sample #:	H8F090176-001
	98	(90 - 110)			MCAWW 130.2	06/16/98	8168157
	98	(90 - 110)	0.0	(0-20)	MCAWW 130.2	06/16/98	8168157
		Dilution Factor: 1					
Nitrate		WO#:	CJ349134-MS/CJ349135-MSD			MS Lot-Sample #:	H8F160181-005
	98	(90 - 110)			MCAWW 353.2	06/17/98	8174187
	97	(90 - 110)	0.76	(0-10)	MCAWW 353.2	06/17/98	8174187
		Dilution Factor: 1					
Nitrate as N		WO#:	CHWHQ12T-MS/CHWHQ12U-MSD			MS Lot-Sample #:	H8F100194-001
	97	(80 - 120)			MCAWW 300.0A	06/11/98	8188169
	97	(80 - 120)	0.05	(0-20)	MCAWW 300.0A	06/11/98	8188169
		Dilution Factor: 1					
Sulfate		WO#:	CJ349137-MS/CJ349138-MSD			MS Lot-Sample #:	H8F160181-005
	115	(80 - 120)			MCAWW 375.4	06/26/98	8177243
	112	(80 - 120)	0.93	(0-20)	MCAWW 375.4	06/26/98	8177243
		Dilution Factor: 1					
Total Cyanide		WO#:	CHR1E10T-MS/CHR1E10U-MSD			MS Lot-Sample #:	B8F050164-009
	88	(56 - 128)			SW846 9010A	06/13/98	8164126
	82	(56 - 128)	5.7	(0-18)	SW846 9010A	06/13/98	8164126
		Dilution Factor: 1					
Total Organic Carbon		WO#:	CHMK2134-MS/CHMK2135-MSD			MS Lot-Sample #:	H8F020185-001
	91	(90 - 112)			SW846 9060	06/16-06/17/98	8169170
	92	(90 - 112)	0.57	(0-20)	SW846 9060	06/16-06/17/98	8169170
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H8F090176 **Work Order #...:** CHWHQ-SMP CHWHQ-DUP **Matrix.....:** WATER

Date Sampled...: 06/09/98 **Date Received..:** 06/10/98

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #:	H8F100194-001	
	401	349	mg/L	14	(0-20)	MCAWW 160.1	06/12-06/16/98	8169243

Dilution Factor: 1

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: PB027 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH		WO#:CJ38J102-LCS/CJ38J103-LCSD				LCS Lot-Sample#: B8F170000-153	
	100	(90 - 110)			MCAWW 310.1	06/16/98	8168153
	100	(90 - 110)	0.0	(0-20)	MCAWW 310.1	06/16/98	8168153
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:CJ38M102-LCS/CJ38M103-LCSD				LCS Lot-Sample#: B8F170000-157	
	100	(90 - 110)			MCAWW 130.2	06/16/98	8168157
	100	(90 - 110)	0.0	(0-20)	MCAWW 130.2	06/16/98	8168157
		Dilution Factor: 1					
Nitrate as N		WO#:CHVNG102-LCS/CHVNG103-LCSD				LCS Lot-Sample#: B8F100000-154	
	96	(89 - 110)			MCAWW 300.0A	06/09/98	8161154
	97	(89 - 110)	1.2	(0-20)	MCAWW 300.0A	06/09/98	8161154
		Dilution Factor: 1					
Total Dissolved Solids		WO#:CJ4N5102-LCS/CJ4N5103-LCSD				LCS Lot-Sample#: B8F180000-243	
	98	(84 - 114)			MCAWW 160.1	06/12-06/16/98	8169243
	97	(84 - 114)	1.0	(0-20)	MCAWW 160.1	06/12-06/16/98	8169243
		Dilution Factor: 1					
Total Organic Carbon		WO#:CJEE4102-LCS/CJEE4103-LCSD				LCS Lot-Sample#: B8F290000-133	
	91	(90 - 112)			SW846 9060	06/26/98	8180133
	91	(90 - 112)	0.03	(0-20)	SW846 9060	06/26/98	8180133
		Dilution Factor: 1					
Total Organic Carbon		WO#:CJ4DV102-LCS/CJ4DV103-LCSD				LCS Lot-Sample#: B8F180000-170	
	94	(90 - 112)			SW846 9060	06/16-06/17/98	8169170
	93	(90 - 112)	0.79	(0-20)	SW846 9060	06/16-06/17/98	8169170
		Dilution Factor: 1					
Total Suspended Solids		WO#:CJ4ND102-LCS/CJ4ND103-LCSD				LCS Lot-Sample#: B8F180000-245	
	99	(76 - 121)			MCAWW 160.2	06/12-06/16/98	8169245
	96	(76 - 121)	2.6	(0-20)	MCAWW 160.2	06/12-06/16/98	8169245
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: PB027 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: CJ24L102	LCS Lot-Sample#: B8F150000-318		
	97	(90 - 115)	MCAWW 325.2	06/15/98	8166318
		Dilution Factor: 1			
Nitrate		Work Order #: CJ96M102	LCS Lot-Sample#: B8F230000-187		
	98	(90 - 110)	MCAWW 353.2	06/17/98	8174187
		Dilution Factor: 1			
Nitrate as N		Work Order #: CJK68102	LCS Lot-Sample#: B8G070000-169		
	98	(89 - 110)	MCAWW 300.0A	06/11/98	8188169
		Dilution Factor: 1			
Sulfate		Work Order #: CJEDV102	LCS Lot-Sample#: B8F260000-243		
	102	(90 - 110)	MCAWW 375.4	06/26/98	8177243
		Dilution Factor: 1			
Total Cyanide		Work Order #: CJ178102	LCS Lot-Sample#: B8F130000-126		
	84	(65 - 119)	SW846 9010A	06/13/98	8164126
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB027

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	DISS	TOTAL	ALK	TOC	NO3	SO4	CL	HARD	CN	TSS	TDS	EXP
				8260A	8270B	8081	6010A	6010A	310.1	9060	353.2	375.3	325.3	130.2	9010A	160.2	160.1	8330
1	6/9/98	H8F090176	7310	X	X	X	X	X	T	T	T	T	T	T	T	T	T	X
2			7311	X														
3	6/10/98	H8F100194	7350	X	X	X	X	X	T	T	T	T	T	T	T	T	T	X
4			7430															X
5			9026	X														
6	6/11/98	H8F110182	7470	X	X		X	X										X
7			7510	X	X		X	X										X
			9027	X														
8			7590	X	X	X	X	X										X
9	6/12/98	H8F120200	7670	X	X	X	X	X										X
10			7870	X	X	X	X	X										X
11			7871	X	X	X	X	X										X
12			9028	X														
13	6/13/98	H8F130129	7230	X	X	X	X	X										X
14			7710	X	X	X	X	X										X
15			7750	X	X	X	X	X										X
16			7790	X	X	X	X	X										X
17			7910	X	X	X	X	X										X
18			9030	X														
19	6/15/98	H8F150105	7830	X	X		X	X										X
20			7950	X	X		X	X										X
21			9031	X														

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: WATER
ANALYTICAL DUE: 7-2-98
REPORT DUE: 7-6-98
CLOSED?__YES__

7/16/98 6:30 PM

Quote# 20941

H8F090176

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060898QESK

Project Number: 773701

Samples Shipment Date: 08-JUN-98

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624849987/801624849998

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ]

Sample Disposal:

Return to Client [ ] Disposal by Lab [ ] Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] IT — Date: 4-8-98 Time: 1800

2. Relinquished By (Signature/Affiliation) — Date: Time:

3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) [signature] — Date: 6/9/98 Time: 0930

2. Received By (Signature/Affiliation) — Date: Time:

3. Received By (Signature/Affiliation) — Date: Time:

Comments:

Rec'd @ 2°C
w/custody seals
Intact BPB 6/9/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7280	PBOW-98-SO-PRRP-DP03-7280-(0001	08-JUN-98	15:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7280	PBOW-98-SO-PRRP-DP03-7280-(0001	08-JUN-98	15:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	
7290	PBOW-98-SO-PRRP-DP03-7290-(0405	08-JUN-98	15:15	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N	001A	
7290	PBOW-98-SO-PRRP-DP03-7290-(0405	08-JUN-98	15:15	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N	001A	
7290	PBOW-98-SO-PRRP-DP03-7290-(0405	08-JUN-98	15:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7290	PBOW-98-SO-PRRP-DP03-7290-(0405	08-JUN-98	15:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N	000B	pH=8 pH=8

H8F090176

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060898QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000B	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N	001A	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N	000B	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N	000B	
7311		08-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N	001A	
7400	PBOW-98-SO-PRRP-DP06-7400-(0001	08-JUN-98	13:30	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N	001A	
7400	PBOW-98-SO-PRRP-DP06-7400-(0001	08-JUN-98	13:30	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N	001A	
7400	PBOW-98-SO-PRRP-DP06-7400-(0001	08-JUN-98	13:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7400	PBOW-98-SO-PRRP-DP06-7400-(0001	08-JUN-98	13:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	
7410	PBOW-98-SO-PRRP-DP06-7410-(0405	08-JUN-98	13:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7410	PBOW-98-SO-PRRP-DP06-7410-(0405	08-JUN-98	13:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	
7420	PBOW-98-SO-PRRP-DP06-7420-(0910	08-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7420	PBOW-98-SO-PRRP-DP06-7420-(0910	08-JUN-98	13:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F090176

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?		✓	
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/9/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			✓
b. Informed Login associates of special instructions ?			

2. If custody seals were missing/not intact, was client notified? ✓

PROJECT MANAGER : [signature] DATE: 6/9/98 (performed RCFA)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
7310	Total + Diss. Metals	4d	Preserved to pH<2

☐ Client informed on _____ by _____. Person contacted: _____.
☑ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/10/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative: pH=8
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T KNO PROJECT: PBOW Lot No.: HBT090176

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?		✓	
b. Was there a CUR?		✓	
c. Were all issues resolved?		✓	

LOT FOLDER REVIEWED BY: [signature] DATE: 6/7/98

*add test to sample #310 for nitrate by MTD ~~300.0~~ BPB 7/2/98

(do not delete anything)

QA016R7.doc, 01/29/98

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060898QTAM

Project Number: 773701

Samples Shipment Date: 08-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: QUANTERRA, TAMPA LABORATORY

Sample Coordinator: Duane Nielsen

Lab Contact: MICHELE LERSCH

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624852181

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions: NITRATE IS UNPRESERVED/PLEASE PRESERVE UPON RECIEPT.

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/8/98 Time: 1700

1. Received By (Signature/Affiliation) Carol McNulty Date: 6/9/98 Time: 1000

2. Relinquished By (Signature/Affiliation) Date: Time:

2. Received By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N	000C	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N	000C	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N	000C	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N	000C	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	40 ml GVIAL,SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N	000C	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L HDPE	1	NONE	Nitrate by E353.2 in water	N	000C	

Quanterra
Environmental Services

TAMPA LABORATORY
CONDITION UPON RECEIPT FORM

Client: IT
Project Name: Plumbrook
Date Received: 6/9/98
Lot Number:
Received By: Carol McNulty
CUR Completed By: Carol McNulty

Cooler/Shipping Information:

Type: Cooler X Box ___ Other ___/___

Cooler ID/Track #					
Temp (Celsius)	4°				
Cooler ID/Track #					
Temp (Celsius)					

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact? Check "NA" if hand delivered. If "Yes," check one: CUSTODY SEAL SAVED ☐ UNABLE TO SAVE CUSTODY SEAL ☒	X		
2. Were custody papers properly included with samples?	X		
3. Were custody papers properly filled out (ink, signed, match labels)?	X		
4. Did all bottles arrive in good condition (unbroken)?	X		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	X		
6. Were correct bottles used for the tests indicated?	X		
7. Were proper sample preservation techniques indicated?	X		
8. Were samples received within holding times? If "No," NCM required.	X		
9. Were all VOA bottles checked for the presence of air bubbles? If air bubbles were found, indicate in comment section.			X
10. Were samples in direct contact with wet ice? If "No," check one: NO ICE ☐ BLUE ICE ☐	X		
11. Were the samples received with a temperature blank? RECORD TEMPERATURE ABOVE If "No," check one: UNABLE TO DETERMINE TEMP ☐ TEMP TAKEN FROM ICE/WATER NEAR SAMPLES ☐	X		
12. Were sample pHs checked and recorded by S.R. (see back for Page 2 - Sample pH)? *NOTE: TOC and VOA samples are checked by laboratory analysts. If response is "Not Inspected," then a pH check is not required/performed by Sample Receiving and Page 2 is not applicable.*	*		Not inspected - Page 2 not completed ☐
13. Were samples accepted into the laboratory?	X		

Comments: * Ph's - Hardness 5 CN = 12

Complete if applicable: NCM#: ___ Check one: Notified PM by E-mail ☐ Hard Copy ☐

Project Manager initials/date reviewed: MR 6/10/98

Corrective Action: ___

Corrective Action completed by/date: ___

H8F100194

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060998QESK

Project Number: 773701

Samples Shipment Date: 09-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850009/801624850010

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) David R. Dam Date: 6/9/98 Time: 1700

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Byron Blomquist Date: 6/10/98 Time: 0900

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 2 1L Poly for Metals
1-Total 1-Dissolved (Filtered) in Field F on Cap

Rec'd @ 5°C
w/custody Seals
Intact BPB 6/10/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7320	PBOW-98-SO-PRRP-DP04-7320-(0001	09-JUN-98	13:30	2 INCH Tefslv	1	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N	000A	
7320	PBOW-98-SO-PRRP-DP04-7320-(0001	09-JUN-98	13:30	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N	000A	
7320	PBOW-98-SO-PRRP-DP04-7320-(0001	09-JUN-98	13:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000A	
7320	PBOW-98-SO-PRRP-DP04-7320-(0001	09-JUN-98	13:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	000A	
7330	PBOW-98-SO-PRRP-DP04-7330-(0405	09-JUN-98	13:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	000A	
7330	PBOW-98-SO-PRRP-DP04-7330-(0405	09-JUN-98	13:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000A	
7340	PBOW-98-SO-PRRP-DP04-7340-(0910	09-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000A	
7340	PBOW-98-SO-PRRP-DP04-7340-(0910	09-JUN-98	13:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	000A	

H8F100194

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060998QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N	001A	
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N	000B	
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N	000B	
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N	000B	TOTAL PH 7 DISS PH<2
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000B	
7430	PBOW-98-GW-PRRP-DP06-7430	09-JUN-98	14:45	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000B	1/2 LITER RECEIVED
9026		09-JUN-98	14:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N	001A	

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: 1H8FD0194

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?		✓	
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?			✓
i. Did you check for residual chlorine, if necessary?	✓		
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		✓
k. Were samples screened for radioactivity?	✓		
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?			

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6-10-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/10/98 (per faxed RFA)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
7350	TOTAL METALS	4D	RECEIVED AT PH 7 FORWARDED TO PHLS AT LAB WITH HNO3 ADD 6-10-98
7430	8330	3F	1/2 LITER RECEIVED
7350	TOC	4A	NOT LISTED ON COC (2 pieces received

☐ Client informed on _____ by _____. Person contacted: _____.
☑ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/12/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: ½ LITER RECEIVED
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT Knx PROJECT: PBOW Lot No.: H8F100194

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/12/98

add tests for sample 7350 for Nitrate by MTD. 300.0 !
(do not delete anything

BPB 7/2/98

QA016R7.doc, 01/29/98

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060998QTAM

Project Number: 773701

Samples Shipment Date: 09-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: QUANTERRA, TAMPA LABORATORY

Sample Coordinator: Duane Nielsen

Lab Contact: MICHELE LERSCH

Tumaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624852192

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions: NITRATES ARE UNPRESERVED

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) Daniel R. Dawson Date: 6/9/98 Time: 1700
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Received By (Signature/Affiliation) Carol McKulty Date: 6/10/98 Time: 1000
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N		
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N		
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N		
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N		
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	40 ml GVIAL,SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N	did not receive	
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L HDPE	1	None except cool to 4 C	Nitrate by E353.2 in water	N		

Quanterra Incorporated
SAMPLE ANALYSIS REQUISITION

LABORATORY: Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,DAM ER

NEED ANALYTICAL REPORT BY
7/01/98

ATTN:

LAB PURCHASE ORDER: SR011276

CLIENT CODE: 99266 PROJECT MANAGER: John D. Reynolds

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H8F100194-001 CHWHQ-1-0W	6/09/98	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H8F100194-001 CHWHQ-1-0X	6/09/98	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H8F100194-001 CHWHQ-1-10	6/09/98	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H8F100194-001 CHWHQ-1-11	6/09/98	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H8F100194-001 CHWHQ-1-12	6/09/98	Chloride (325.2, Automated) (CL) METHOD: 325.2
H8F100194-001 CHWHQ-1-13	6/09/98	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H8F100194-001 CHWHQ-1-14	6/09/98	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H8F100194-001 CHWHQ-1-15	6/09/98	Cyanide, Total (9010) OKD 6-11-98 (CN_LIQ) METHOD: 9010A
H8F100194-001 CHWHQ-1-16	6/09/98	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: AIRBORNE EXPRESS DATE: 6/10/98

SEND REPORT TO: JOHN REYNOLDS

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

QUANTERRA - KNOXVILLE
INT: _____ 6/10/98 15:43:33
Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,DAM ER

RELINQUISHED BY: Bryan K Dawson DATE/TIME: 6-11-98 16:30

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: Carol McNulty DATE/TIME: 6/12/98 - Rec'd at 3°C

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

Quanterra
Environmental Services

TAMPA LABORATORY
CONDITION UPON RECEIPT FORM

Client: I,T
Date Received: 6/10/98
Received By: Carol Mc Nulty
Project Name: Plumbrook
Lot Number: HSF10094
CUR Completed By: Carol Mc Nulty

Cooler/Shipping Information:
Type: Cooler X Box ___ Other ___/___

Cooler ID/Track #					
Temp (Celsius)	5°				
Cooler ID/Track #					
Temp (Celsius)					

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact? Check "NA" if hand delivered. If "Yes," check one: CUSTODY SEAL SAVED ☐ UNABLE TO SAVE CUSTODY SEAL ☒	X		
2. Were custody papers properly included with samples?	X		
3. Were custody papers properly filled out (ink, signed, match labels)?	X		
4. Did all bottles arrive in good condition (unbroken)?	X		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	X		
6. Were correct bottles used for the tests indicated?	X		
7. Were proper sample preservation techniques indicated?	X		
8. Were samples received within holding times? If "No," NCM required.	X		
9. Were all VOA bottles checked for the presence of air bubbles? If air bubbles were found, indicate in comment section.			X
10. Were samples in direct contact with wet ice? If "No," check one: NO ICE ☐ BLUE ICE ☐	X		
11. Were the samples received with a temperature blank? **RECORD TEMPERATURE ABOVE** If "No," check one: UNABLE TO DETERMINE TEMP ☐ TEMP TAKEN FROM ICE/WATER NEAR SAMPLES ☐	X		
12. Were sample pHs checked and recorded by S.R. (see back for Page 2 - Sample pH)? *NOTE: TOC and VOA samples are checked by laboratory analysts. If response is "Not Inspected," then a pH check is not required/performed by Sample Receiving and Page 2 is not applicable.*	X		Not inspected - Page 2 not completed ☐
13. Were samples accepted into the laboratory?	X		

Comments: Did not receive TOC Vials

pH's = CN13 Hardness <2

Complete if applicable: NCM#: ___ Check one: Notified PM by E-mail ☐ Hard Copy ☐
Project Manager initials/date reviewed: ML 6/11/98
Corrective Action: Bryan Dannor will send TOC vials 6/12/98

Corrective Action completed by/date: ___

1+8F110182

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061098QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7470	PBOW-98-GW-PRRP-DP07-7470	10-JUN-98	08:15	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7470	PBOW-98-GW-PRRP-DP07-7470	10-JUN-98	08:15	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7470	PBOW-98-GW-PRRP-DP07-7470	10-JUN-98	08:15	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T PH<2 D PH<2
7470	PBOW-98-GW-PRRP-DP07-7470	10-JUN-98	08:15	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7480	PBOW-98-SO-PRRP-DP08-7480-(0001	10-JUN-98	09:40	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7480	PBOW-98-SO-PRRP-DP08-7480-(0001	10-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7480	PBOW-98-SO-PRRP-DP08-7480-(0001	10-JUN-98	09:40	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7480	PBOW-98-SO-PRRP-DP08-7480-(0001	10-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7490	PBOW-98-SO-PRRP-DP08-7490-(0405	10-JUN-98	09:50	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7490	PBOW-98-SO-PRRP-DP08-7490-(0405	10-JUN-98	09:50	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7500	PBOW-98-SO-PRRP-DP08-7500-(0910	10-JUN-98	10:00	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7500	PBOW-98-SO-PRRP-DP08-7500-(0910	10-JUN-98	10:00	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7510	PBOW-98-GW-PRRP-DP08-7510	10-JUN-98	14:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T PH 4 D PH<2
7510	PBOW-98-GW-PRRP-DP08-7510	10-JUN-98	14:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7510	PBOW-98-GW-PRRP-DP08-7510	10-JUN-98	14:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7510	PBOW-98-GW-PRRP-DP08-7510	10-JUN-98	14:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7560	PBOW-98-SO-PRRP-DP10-7560-(0001	10-JUN-98	13:25	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7560	PBOW-98-SO-PRRP-DP10-7560-(0001	10-JUN-98	13:25	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7560	PBOW-98-SO-PRRP-DP10-7560-(0001	10-JUN-98	13:25	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7560	PBOW-98-SO-PRRP-DP10-7560-(0001	10-JUN-98	13:25	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7570	PBOW-98-SO-PRRP-DP10-7570-(0405	10-JUN-98	13:35	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7570	PBOW-98-SO-PRRP-DP10-7570-(0405	10-JUN-98	13:35	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7580	PBOW-98-SO-PRRP-DP10-7580-(0910	10-JUN-98	13:45	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7580	PBOW-98-SO-PRRP-DP10-7580-(0910	10-JUN-98	13:45	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T PH 7 D PH 7
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
9027		10-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

H8F110182

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061098QESK

Project Number: 773701

Samples Shipment Date: 10-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850020

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/10/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Received By (Signature/Affiliation) Bryan K Dawson Date: 6-11-98 Time: 09:00

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Custody seals intact
received at 2°C
BKD 6-11-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7440	PBOW-98-SO-PRRP-DP07-7440-(0001	09-JUN-98	16:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7440	PBOW-98-SO-PRRP-DP07-7440-(0001	09-JUN-98	16:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7450	PBOW-98-SO-PRRP-DP07-7450-(0405	09-JUN-98	17:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7450	PBOW-98-SO-PRRP-DP07-7450-(0405	09-JUN-98	17:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7450	PBOW-98-SO-PRRP-DP07-7450-(0405	09-JUN-98	17:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7450	PBOW-98-SO-PRRP-DP07-7450-(0405	09-JUN-98	17:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7460	PBOW-98-SO-PRRP-DP07-7460-(0910	09-JUN-98	17:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7460	PBOW-98-SO-PRRP-DP07-7460-(0910	09-JUN-98	17:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: H8F110182

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?		✓	
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: Bryan K Dannen DATE: 6-11-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23587			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/11/98 / per forward RFA

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
7510	TOTAL METALS	4D	RECEIVED AT PH4
7590	TOTAL + DISS METALS	↓	RECEIVED AT PH7
			BOTH SAMPLES PRESERVED TO PH<2
			AT LAB WITH HNO3 AND 6-11-98

☐ Client informed on _____ by _____. Person contacted: _____.
☑ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/12/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PBW Lot No.: H8F110182

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:			
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:			
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:			
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:			
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/12/98

QA016R7.doc, 01/29/98

H8F120200

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061198QESK

Project Number: 773701

Samples Shipment Date: 11-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850031

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown |X|

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/11/98 Time: 1800

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client | | Disposal by Lab |X| Archive (mos.)

1. Received By (Signature/Affiliation) [signature] Date: 6/12/98 Time: 0930

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd @ 2 °c
w/custody Seals
Intact BPB 6/12/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7200	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7200	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7200	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7200	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7200-MS	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7200-MS	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7200-MS	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

1-48F120200

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061198QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7200-MS	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7200-MSD	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7200-MSD	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7200-MSD	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7200-MSD	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7201	PBOW-98-SO-PRRP-DP01-7201-(0001	11-JUN-98	12:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7201	PBOW-98-SO-PRRP-DP01-7201-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7201	PBOW-98-SO-PRRP-DP01-7201-(0001	11-JUN-98	12:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7201	PBOW-98-SO-PRRP-DP01-7201-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7210	PBOW-98-SO-PRRP-DP01-7210-(0405	11-JUN-98	12:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7210	PBOW-98-SO-PRRP-DP01-7210-(0405	11-JUN-98	12:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7220	PBOW-98-SO-PRRP-DP01-7220-(0910	11-JUN-98	13:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7220	PBOW-98-SO-PRRP-DP01-7220-(0910	11-JUN-98	13:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7640	PBOW-98-SO-PRRP-DP12-7640-(0001	11-JUN-98	08:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7640	PBOW-98-SO-PRRP-DP12-7640-(0001	11-JUN-98	08:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7650	PBOW-98-SO-PRRP-DP12-7650-(0405	11-JUN-98	08:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7650	PBOW-98-SO-PRRP-DP12-7650-(0405	11-JUN-98	08:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7650	PBOW-98-SO-PRRP-DP12-7650-(0405	11-JUN-98	08:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7650	PBOW-98-SO-PRRP-DP12-7650-(0405	11-JUN-98	08:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7660	PBOW-98-SO-PRRP-DP12-7660-(0910	11-JUN-98	08:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7660	PBOW-98-SO-PRRP-DP12-7660-(0910	11-JUN-98	08:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T pH<2 D pH<2
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7840	PBOW-98-SO-PRRP-DP17-7840-(0001	10-JUN-98	16:55	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7840	PBOW-98-SO-PRRP-DP17-7840-(0001	10-JUN-98	16:55	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7840	PBOW-98-SO-PRRP-DP17-7840-(0001	10-JUN-98	16:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7840	PBOW-98-SO-PRRP-DP17-7840-(0001	10-JUN-98	16:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7850	PBOW-98-SO-PRRP-DP17-7850-(0405	10-JUN-98	17:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7850	PBOW-98-SO-PRRP-DP17-7850-(0405	10-JUN-98	17:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F120200

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061198QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7860	PBOW-98-SO-PRRP-DP17-7860-(0910	10-JUN-98	17:15	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7860	PBOW-98-SO-PRRP-DP17-7860-(0910	10-JUN-98	17:15	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T pH7 D pH<2
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T pH<2 D pH<2
7880	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7880	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7880	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7880	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7880-MS	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7880-MS	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7880-MS	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7880-MS	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7880-MSD	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7880-MSD	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7880-MSD	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7880-MSD	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7881	PBOW-98-SO-PRRP-DP18-7881-(0001	11-JUN-98	14:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7881	PBOW-98-SO-PRRP-DP18-7881-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7881	PBOW-98-SO-PRRP-DP18-7881-(0001	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7881	PBOW-98-SO-PRRP-DP18-7881-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7890	PBOW-98-SO-PRRP-DP18-7890-(0405	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7890	PBOW-98-SO-PRRP-DP18-7890-(0405	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7900	PBOW-98-SO-PRRP-DP18-7900-(0910	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F120200

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061198QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7900	PBOW-98-SO-PRRP-DP18-7900-(0910	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
9028		11-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: 148F120200

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?	✓		✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6-12-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			

PROJECT MANAGER : [signature] DATE: 6/12/98 (performed RFA)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
7670	TOTAL METALS	4D	ASCENDER AT PH7 PRESERVED TO PH<2 AT LAB
7870	↓	↓	" " " WITH HNO3 ON 6-12-98

☐ Client informed on _____ by _____. Person contacted: _____.
☑ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/12/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative: pH7
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNO PROJECT: PBOW Lot No.: KJ8F120200

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/15/98

QA016R7.doc, 01/29/98

Quote # 23581

H8F130129

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061298QESK

Project Number: 773701

Samples Shipment Date: 12-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Tumaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850042

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/12/98 Time: 1800

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Received By (Signature/Affiliation) [signature] Date: 6/13/98 Time: 0920

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd @ 6°C
w/custody Seals
Intact BPB 6/13/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water ✓	N		T ≠ pH<2 D = pH<2
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil ✓	N		
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A ✓	N		
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081 ✓	N		
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil ✓	N		
7680	PBOW-98-SO-PRRP-DP13-7680-(0001	12-JUN-98	10:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7680	PBOW-98-SO-PRRP-DP13-7680-(0001	12-JUN-98	10:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7690	PBOW-98-SO-PRRP-DP13-7690-(0405	12-JUN-98	10:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

H8F130129

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061298QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7690	PBOW-98-SO-PRRP-DP13-7690-(0405	12-JUN-98	10:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7700	PBOW-98-SO-PRRP-DP13-7700-(0910	12-JUN-98	11:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7700	PBOW-98-SO-PRRP-DP13-7700-(0910	12-JUN-98	11:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7700	PBOW-98-SO-PRRP-DP13-7700-(0910	12-JUN-98	11:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7700	PBOW-98-SO-PRRP-DP13-7700-(0910	12-JUN-98	11:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T= pH<2 D= pH<2
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7720	PBOW-98-SO-PRRP-DP14-7720-(0001	11-JUN-98	16:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7720	PBOW-98-SO-PRRP-DP14-7720-(0001	11-JUN-98	16:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7720	PBOW-98-SO-PRRP-DP14-7720-(0001	11-JUN-98	16:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7720	PBOW-98-SO-PRRP-DP14-7720-(0001	11-JUN-98	16:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7730	PBOW-98-SO-PRRP-DP14-7730-(0405	11-JUN-98	16:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7730	PBOW-98-SO-PRRP-DP14-7730-(0405	11-JUN-98	16:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7740	PBOW-98-SO-PRRP-DP14-7740-(0910	11-JUN-98	16:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7740	PBOW-98-SO-PRRP-DP14-7740-(0910	11-JUN-98	16:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		Total = pH=4 Diss = pH<2
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7760	PBOW-98-SO-PRRP-DP15-7760-(0001	12-JUN-98	13:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7760	PBOW-98-SO-PRRP-DP15-7760-(0001	12-JUN-98	13:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7770	PBOW-98-SO-PRRP-DP15-7770-(0405	12-JUN-98	13:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7770	PBOW-98-SO-PRRP-DP15-7770-(0405	12-JUN-98	13:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7780	PBOW-98-SO-PRRP-DP15-7780-(0910	12-JUN-98	13:15	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7780	PBOW-98-SO-PRRP-DP15-7780-(0910	12-JUN-98	13:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7780	PBOW-98-SO-PRRP-DP15-7780-(0910	12-JUN-98	13:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7780	PBOW-98-SO-PRRP-DP15-7780-(0910	12-JUN-98	13:15	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		

HSF 130109

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061298QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T = pH5 D = pH5
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T = pH6 D = pH<2
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7920	PBOW-98-SO-PRRP-DP19-7920-(0001	12-JUN-98	14:25	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7920	PBOW-98-SO-PRRP-DP19-7920-(0001	12-JUN-98	14:25	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7920	PBOW-98-SO-PRRP-DP19-7920-(0001	12-JUN-98	14:25	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7920	PBOW-98-SO-PRRP-DP19-7920-(0001	12-JUN-98	14:25	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7930	PBOW-98-SO-PRRP-DP19-7930-(0405	12-JUN-98	14:35	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7930	PBOW-98-SO-PRRP-DP19-7930-(0405	12-JUN-98	14:35	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7940	PBOW-98-SO-PRRP-DP19-7940-(0910	12-JUN-98	14:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7940	PBOW-98-SO-PRRP-DP19-7940-(0910	12-JUN-98	14:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
9030		12-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F130129

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?		✓	
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/13/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓

2. If custody seals were missing/not intact, was client notified?

PROJECT MANAGER : [signature] DATE: 6/13/98 (per faxed RFA)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNO PROJECT: PBNW Lot No.: H8F130129

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?	✓		
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/15/98

QA016R7.doc, 01/29/98

H8H50105

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061398QESK

Project Number: 773701

Samples Shipment Date: 13-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850053

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) Date: 6/13/98 Time: 1330

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Bryan K Cannon Date: 6-15-98 Time: 09:45

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments:

Custody seals intact
received at 2°C
BKC 6-15-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7800	PBOW-98-SO-PRRP-DP16-7800-(0001	12-JUN-98	16:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7800	PBOW-98-SO-PRRP-DP16-7800-(0001	12-JUN-98	16:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7810	PBOW-98-SO-PRRP-DP16-7810-(0405	12-JUN-98	16:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7810	PBOW-98-SO-PRRP-DP16-7810-(0405	12-JUN-98	16:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7820	PBOW-98-SO-PRRP-DP16-7820-(0910	12-JUN-98	16:30	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7820	PBOW-98-SO-PRRP-DP16-7820-(0910	12-JUN-98	16:30	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7820	PBOW-98-SO-PRRP-DP16-7820-(0910	12-JUN-98	16:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7820	PBOW-98-SO-PRRP-DP16-7820-(0910	12-JUN-98	16:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

H8F150105

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061398QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7830	PBOW-98-GW-PRRP-DP16-7830	13-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7830	PBOW-98-GW-PRRP-DP16-7830	13-JUN-98	11:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7830	PBOW-98-GW-PRRP-DP16-7830	13-JUN-98	11:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7830	PBOW-98-GW-PRRP-DP16-7830	13-JUN-98	11:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2
7950	PBOW-98-GW-PRRP-DP19-7950	13-JUN-98	10:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7950	PBOW-98-GW-PRRP-DP19-7950	13-JUN-98	10:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7950	PBOW-98-GW-PRRP-DP19-7950	13-JUN-98	10:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7950	PBOW-98-GW-PRRP-DP19-7950	13-JUN-98	10:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
9031		13-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PUMBROOK Lot No.: H8F150105

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?		✓	
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6-15-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23551			✓
b. Informed Login associates of special instructions ?			
N/Ca			✓
2. If custody seals were missing/not intact, was client notified?			

PROJECT MANAGER : [signature] DATE: 6/15/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Actions
7830	DISS METALS	lab	NOT LISTED ON COC
7950	✓	✓	✓
			Process as received

☐ Client informed on _____ by _____. Person contacted: _____.
☒ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/15/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PBOW Lot No.: H8F150105

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?	✓		
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/16/98

QA016R7.doc, 01/29/98

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

Quanterra
Environmental Services

ANALYTICAL REPORT

PROJECT NO. ~~771481~~ 773701

PBOW-Red Water Ponds
SDG #: PB028

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

July 16, 1998

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB028

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F060137-002	D	06/06/98	LAB MS/MSD
H8F060137-002	S	06/06/98	LAB MS/MSD
H8F090177-001		06/09/98	7280
H8F090177-001	D	06/09/98	7280
H8F090177-001	S	06/09/98	7280
H8F090177-002		06/09/98	7290
H8F090177-002	D	06/09/98	7290
H8F090177-002	S	06/09/98	7290
H8F090177-003		06/09/98	7400
H8F090177-004		06/09/98	7410
H8F090177-005		06/09/98	7420
H8F100187-001		06/10/98	7320
H8F100187-001	D	06/10/98	7320
H8F100187-001	S	06/10/98	7320
H8F100187-002		06/10/98	7330
H8F100187-003		06/10/98	7340
H8F110181-001		06/11/98	7440
H8F110181-002		06/11/98	7450
H8F110181-003		06/11/98	7460
H8F110181-004		06/11/98	7480
H8F110181-005		06/11/98	7490
H8F110181-006		06/11/98	7500
H8F110181-007		06/11/98	7560
H8F110181-008		06/11/98	7570
H8F110181-009		06/11/98	7580
H8F150116-001		06/15/98	7800
H8F150116-001	D	06/15/98	7800
H8F150116-001	S	06/15/98	7800
H8F150116-002		06/15/98	7810
H8F150116-003		06/15/98	7820

Quanterra
Environmental Services

SAMPLE SUMMARY

PB028 : H8F090177

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CHVK9	001	7280	06/08/98	15:00
CHVKF	002	7290	06/08/98	15:15
CHVKG	003	7400	06/08/98	13:30
CHVKH	004	7410	06/08/98	13:40
CHVKJ	005	7420	06/08/98	13:50

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

Quanterra
Environmental Services

SAMPLE SUMMARY

PB028 : H8F100187

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CHWGL	001	7320	06/09/98	13:30
CHWGN	002	7330	06/09/98	13:40
CHWGP	003	7340	06/09/98	13:50

NOTE(S):

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(Continued on next page)

Quanterra
Environmental Services

SAMPLE SUMMARY

PB028 : H8F110181

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CHXJV	001	7440	06/09/98	16:50
CHXJX	002	7450	06/09/98	17:00
CHXK0	003	7460	06/09/98	17:10
CHXK1	004	7480	06/10/98	09:40
CHXK2	005	7490	06/10/98	09:50
CHXK3	006	7500	06/10/98	10:00
CHXK4	007	7560	06/10/98	13:25
CHXK5	008	7570	06/10/98	13:35
CHXK6	009	7580	06/10/98	13:45

NOTE(S):

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(Continued on next page)

Quanterra
Environmental Services

SAMPLE SUMMARY

PB028 : H8F150116

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ1W9	001	7800	06/12/98	16:10
CJ1WD	002	7810	06/12/98	16:20
CJ1WF	003	7820	06/12/98	16:30

NOTE(S):

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- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

PB028

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides and PCBs	SW846 8081
Percent Moisture	MCAWW 160.3 MOD
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Volatiles

Internal standard recoveries for sample 7320 were outside control limits. However, re-analysis of the sample resulted in similar results, indicating that a sample matrix effect is responsible for the internal standard criteria not being met. Both sets of data are reported.

PCBs

Surrogate recoveries for sample 7320 were outside control limits, and a re-extraction and re-analysis was performed outside of holding time criteria. The re-extraction results show that the original recoveries were wrong; however, both sets of data are presented for compliance purposes.

Metals

The batch matrix spike/matrix spike duplicate recoveries were outside control limits for some analytes. However, the laboratory control sample showed acceptable results indicating that the analysis was in control. The batch matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

The serial dilution of sample 7290 was outside control limits due to physical or chemical matrix interferences.

COMMENTS:

Semivolatiles

Samples 7290 were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

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Quanterra
Environmental Services

PROJECT NARRATIVE

PCBs

Sample 7290 was reported with elevated reporting limits for all analytes due to the difficult sample matrix. The reporting limits have been adjusted accordingly.

Explosives

Sample 7580 was reported with elevated reporting limits for 4-Amino-2,6-dinitrotolune due to sample matrix interferences.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7290

GC/MS Volatiles

Lot-Sample #...: H8F090177-002 **Work Order #...:** CHVKF102 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/12/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8163286
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	13	ug/kg
Bromomethane	ND	13	ug/kg
Vinyl chloride	ND	13	ug/kg
Chloroethane	ND	13	ug/kg
Methylene chloride	ND	6.3	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.3	ug/kg
1,1-Dichloroethene	ND	6.3	ug/kg
1,1-Dichloroethane	ND	6.3	ug/kg
1,2-Dichloroethene (total)	ND	6.3	ug/kg
Chloroform	ND	6.3	ug/kg
1,2-Dichloroethane	ND	6.3	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.3	ug/kg
Carbon tetrachloride	ND	6.3	ug/kg
Bromodichloromethane	ND	6.3	ug/kg
1,2-Dichloropropane	ND	6.3	ug/kg
cis-1,3-Dichloropropene	ND	6.3	ug/kg
Trichloroethene	ND	6.3	ug/kg
Dibromochloromethane	ND	6.3	ug/kg
1,1,2-Trichloroethane	ND	6.3	ug/kg
Benzene	ND	6.3	ug/kg
trans-1,3-Dichloropropene	ND	6.3	ug/kg
Bromoform	ND	6.3	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.3	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.3	ug/kg
Toluene	ND	6.3	ug/kg
Chlorobenzene	ND	6.3	ug/kg
Ethylbenzene	ND	6.3	ug/kg
Styrene	ND	6.3	ug/kg
Xylenes (total)	ND	6.3	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(64 - 135)
Toluene-d8	105	(77 - 124)
4-Bromofluorobenzene	112	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7290

GC/MS Volatiles

Lot-Sample #...: H8F090177-002 **Work Order #...:** CHVKF102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7400

GC/MS Volatiles

Lot-Sample #...: H8F090177-003 **Work Order #...:** CHVKG102 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/12/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8163286
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	5.9	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	5.9	ug/kg
1,1-Dichloroethene	ND	5.9	ug/kg
1,1-Dichloroethane	ND	5.9	ug/kg
1,2-Dichloroethene (total)	ND	5.9	ug/kg
Chloroform	ND	5.9	ug/kg
1,2-Dichloroethane	ND	5.9	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	5.9	ug/kg
Carbon tetrachloride	ND	5.9	ug/kg
Bromodichloromethane	ND	5.9	ug/kg
1,2-Dichloropropane	ND	5.9	ug/kg
cis-1,3-Dichloropropene	ND	5.9	ug/kg
Trichloroethene	ND	5.9	ug/kg
Dibromochloromethane	ND	5.9	ug/kg
1,1,2-Trichloroethane	ND	5.9	ug/kg
Benzene	ND	5.9	ug/kg
trans-1,3-Dichloropropene	ND	5.9	ug/kg
Bromoform	ND	5.9	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	5.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
Toluene	ND	5.9	ug/kg
Chlorobenzene	ND	5.9	ug/kg
Ethylbenzene	ND	5.9	ug/kg
Styrene	ND	5.9	ug/kg
Xylenes (total)	ND	5.9	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(64 - 135)
Toluene-d8	110	(77 - 124)
4-Bromofluorobenzene	125	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7400

GC/MS Volatiles

Lot-Sample #...: H8F090177-003 **Work Order #...:** CHVKG102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

GC/MS Volatiles

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL102 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/16/98
Prep Batch #...: 8167249
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.0	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 135)
Toluene-d8	109	(77 - 124)
4-Bromofluorobenzene	81	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

GC/MS Volatiles

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

GC/MS Volatiles

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL202 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.0	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(64 - 135)
Toluene-d8	113	(77 - 124)
4-Bromofluorobenzene	113	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

GC/MS Volatiles

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7450

GC/MS Volatiles

Lot-Sample #...: H8F110181-002 **Work Order #...:** CHXJX102 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/11/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/16/98
Prep Batch #...: 8167249
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
Acetone	**8.2 J**	**25**	**ug/kg**
Carbon disulfide	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethene (total)	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
Trichloroethene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Benzene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Toluene	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
Styrene	ND	6.1	ug/kg
Xylenes (total)	ND	6.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(64 - 135)
Toluene-d8	95	(77 - 124)
4-Bromofluorobenzene	78	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7450

GC/MS Volatiles

Lot-Sample #...: H8F110181-002 **Work Order #...:** CHXJX102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7480

GC/MS Volatiles

Lot-Sample #...: H8F110181-004 **Work Order #...:** CHXK1102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/16/98
Prep Batch #...: 8167249
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	5.8	ug/kg
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(64 - 135)
Toluene-d8	111	(77 - 124)
4-Bromofluorobenzene	86	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7480

GC/MS Volatiles

Lot-Sample #...: H8F110181-004 **Work Order #...:** CHXK1102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7560

GC/MS Volatiles

Lot-Sample #...: H8F110181-007 **Work Order #...:** CHXK4102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/16/98
Prep Batch #...: 8167249
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	ND	5.6	ug/kg
Acetone	ND	22	ug/kg
Carbon disulfide	ND	5.6	ug/kg
1,1-Dichloroethene	ND	5.6	ug/kg
1,1-Dichloroethane	ND	5.6	ug/kg
1,2-Dichloroethene (total)	ND	5.6	ug/kg
Chloroform	ND	5.6	ug/kg
1,2-Dichloroethane	ND	5.6	ug/kg
2-Butanone	ND	22	ug/kg
1,1,1-Trichloroethane	ND	5.6	ug/kg
Carbon tetrachloride	ND	5.6	ug/kg
Bromodichloromethane	ND	5.6	ug/kg
1,2-Dichloropropane	ND	5.6	ug/kg
cis-1,3-Dichloropropene	ND	5.6	ug/kg
Trichloroethene	ND	5.6	ug/kg
Dibromochloromethane	ND	5.6	ug/kg
1,1,2-Trichloroethane	ND	5.6	ug/kg
Benzene	ND	5.6	ug/kg
trans-1,3-Dichloropropene	ND	5.6	ug/kg
Bromoform	ND	5.6	ug/kg
4-Methyl-2-pentanone	ND	22	ug/kg
2-Hexanone	ND	22	ug/kg
Tetrachloroethene	ND	5.6	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg
Toluene	ND	5.6	ug/kg
Chlorobenzene	ND	5.6	ug/kg
Ethylbenzene	ND	5.6	ug/kg
Styrene	ND	5.6	ug/kg
Xylenes (total)	ND	5.6	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(64 - 135)
Toluene-d8	102	(77 - 124)
4-Bromofluorobenzene	85	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7560

GC/MS Volatiles

Lot-Sample #...: H8F110181-007 **Work Order #...:** CHXK4102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7820

GC/MS Volatiles

Lot-Sample #...: H8F150116-003 **Work Order #...:** CJ1WF102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	13	ug/kg
Bromomethane	ND	13	ug/kg
Vinyl chloride	ND	13	ug/kg
Chloroethane	ND	13	ug/kg
Methylene chloride	**2.1 J**	**6.3**	**ug/kg**
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.3	ug/kg
1,1-Dichloroethene	ND	6.3	ug/kg
1,1-Dichloroethane	ND	6.3	ug/kg
1,2-Dichloroethene (total)	ND	6.3	ug/kg
Chloroform	ND	6.3	ug/kg
1,2-Dichloroethane	ND	6.3	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.3	ug/kg
Carbon tetrachloride	ND	6.3	ug/kg
Bromodichloromethane	ND	6.3	ug/kg
1,2-Dichloropropane	ND	6.3	ug/kg
cis-1,3-Dichloropropene	ND	6.3	ug/kg
Trichloroethene	ND	6.3	ug/kg
Dibromochloromethane	ND	6.3	ug/kg
1,1,2-Trichloroethane	ND	6.3	ug/kg
Benzene	ND	6.3	ug/kg
trans-1,3-Dichloropropene	ND	6.3	ug/kg
Bromoform	ND	6.3	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.3	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.3	ug/kg
Toluene	ND	6.3	ug/kg
Chlorobenzene	ND	6.3	ug/kg
Ethylbenzene	ND	6.3	ug/kg
Styrene	ND	6.3	ug/kg
Xylenes (total)	ND	6.3	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(64 - 135)
Toluene-d8	103	(77 - 124)
4-Bromofluorobenzene	113	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7820

GC/MS Volatiles

Lot-Sample #...: H8F150116-003 Work Order #...: CJ1WF102 Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB028 **Work Order #...:** CJ0GP101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F120000-286

Prep Date.....: 06/12/98
Analysis Date..: 06/12/98 **Prep Batch #...:** 8163286
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(64 - 135)
Toluene-d8	100	(77 - 124)
4-Bromofluorobenzene	104	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB028 **Work Order #...:** CHRV910A-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F060137-002 CHRV910C-MSD
Date Sampled...: 06/05/98 **Date Received..:** 06/06/98
Prep Date.....: 06/12/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8163286
Dilution Factor: 1 **% Moisture.....:** 16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**87**	**(64 - 146)**			**SW846 8260A**
	90	**(64 - 146)**	**4.3**	**(0-18)**	**SW846 8260A**
Benzene	**88**	**(74 - 122)**			**SW846 8260A**
	96	**(74 - 122)**	**9.3**	**(0-15)**	**SW846 8260A**
Trichloroethene	**85**	**(41 - 151)**			**SW846 8260A**
	90	**(41 - 151)**	**5.5**	**(0-28)**	**SW846 8260A**
Toluene	**92**	**(69 - 132)**			**SW846 8260A**
	101	**(69 - 132)**	**9.0**	**(0-24)**	**SW846 8260A**
Chlorobenzene	**84**	**(67 - 121)**			**SW846 8260A**
	91	**(67 - 121)**	**8.5**	**(0-18)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(64 - 135)
	104	(64 - 135)
Toluene-d8	108	(77 - 124)
	108	(77 - 124)
4-Bromofluorobenzene	106	(70 - 147)
	105	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB028 **Work Order #...:** CJ0GP102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F120000-286
Prep Date.....: 06/12/98 **Analysis Date..:** 06/12/98
Prep Batch #...: 8163286
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**90**	**(67 - 137)**	**SW846 8260A**
Benzene	**93**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**95**	**(68 - 126)**	**SW846 8260A**
Toluene	**103**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**101**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(64 - 135)
Toluene-d8	102	(77 - 124)
4-Bromofluorobenzene	99	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB028 **Work Order #...:** CJ2QJ101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F160000-249

Prep Date.....: 06/16/98
Analysis Date..: 06/16/98 **Prep Batch #...:** 8167249
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	84	(64 - 135)
Toluene-d8	94	(77 - 124)
4-Bromofluorobenzene	76	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB028 **Work Order #...:** CJ2QJ102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F160000-249
Prep Date.....: 06/16/98 **Analysis Date..:** 06/16/98
Prep Batch #...: 8167249
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**103**	**(67 - 137)**	**SW846 8260A**
Benzene	**98**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**114**	**(68 - 126)**	**SW846 8260A**
Toluene	**94**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**101**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	86	(64 - 135)
Toluene-d8	96	(77 - 124)
4-Bromofluorobenzene	77	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB028 **Work Order #...:** CJ46N101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F180000-123

Prep Date.....: 06/18/98
Analysis Date..: 06/18/98 **Prep Batch #...:** 8169123
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB028 **Work Order #...:** CJ46N102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F180000-123
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**95**	**(67 - 137)**	**SW846 8260A**
Benzene	**95**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**105**	**(68 - 126)**	**SW846 8260A**
Toluene	**101**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**99**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	98	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7290

GC/MS Semivolatiles

Lot-Sample #...: H8F090177-002 **Work Order #...:** CHVKF103 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/10/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8161130
Dilution Factor: 10
% Moisture.....: 21 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	4200	ug/kg
bis(2-Chloroethyl) ether	ND	4200	ug/kg
2-Chlorophenol	ND	4200	ug/kg
1,3-Dichlorobenzene	ND	4200	ug/kg
1,4-Dichlorobenzene	ND	4200	ug/kg
1,2-Dichlorobenzene	ND	4200	ug/kg
2-Methylphenol	ND	4200	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	4200	ug/kg
4-Methylphenol	ND	4200	ug/kg
N-Nitrosodi-n-propylamine	ND	4200	ug/kg
Hexachloroethane	ND	4200	ug/kg
Nitrobenzene	ND	4200	ug/kg
Isophorone	ND	4200	ug/kg
2-Nitrophenol	ND	4200	ug/kg
2,4-Dimethylphenol	ND	4200	ug/kg
bis(2-Chloroethoxy) methane	ND	4200	ug/kg
2,4-Dichlorophenol	ND	4200	ug/kg
1,2,4-Trichlorobenzene	ND	4200	ug/kg
Naphthalene	ND	4200	ug/kg
4-Chloroaniline	ND	4200	ug/kg
Hexachlorobutadiene	ND	4200	ug/kg
4-Chloro-3-methylphenol	ND	4200	ug/kg
2-Methylnaphthalene	ND	4200	ug/kg
Hexachlorocyclopentadiene	ND	20000	ug/kg
2,4,6-Trichlorophenol	ND	4200	ug/kg
2,4,5-Trichlorophenol	ND	4200	ug/kg
2-Chloronaphthalene	ND	4200	ug/kg
2-Nitroaniline	ND	20000	ug/kg
Dimethyl phthalate	ND	4200	ug/kg
Acenaphthylene	ND	4200	ug/kg
2,6-Dinitrotoluene	**580 J**	**4200**	**ug/kg**
3-Nitroaniline	ND	20000	ug/kg
Acenaphthene	ND	4200	ug/kg
2,4-Dinitrophenol	ND	20000	ug/kg
4-Nitrophenol	ND	20000	ug/kg
Dibenzofuran	ND	4200	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7290

GC/MS Semivolatiles

Lot-Sample #...: H8F090177-002 **Work Order #...:** CHVKF103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	**8800**	**4200**	**ug/kg**
Diethyl phthalate	ND	4200	ug/kg
4-Chlorophenyl phenyl ether	ND	4200	ug/kg
Fluorene	ND	4200	ug/kg
4-Nitroaniline	ND	20000	ug/kg
4,6-Dinitro-2-methylphenol	ND	20000	ug/kg
N-Nitrosodiphenylamine	ND	4200	ug/kg
4-Bromophenyl phenyl ether	ND	4200	ug/kg
Hexachlorobenzene	ND	4200	ug/kg
Pentachlorophenol	ND	20000	ug/kg
Phenanthrene	ND	4200	ug/kg
Anthracene	ND	4200	ug/kg
Carbazole	ND	4200	ug/kg
Di-n-butyl phthalate	ND	4200	ug/kg
Fluoranthene	ND	4200	ug/kg
Pyrene	ND	4200	ug/kg
Butyl benzyl phthalate	ND	4200	ug/kg
3,3'-Dichlorobenzidine	ND	20000	ug/kg
Benzo(a)anthracene	ND	4200	ug/kg
Chrysene	ND	4200	ug/kg
bis(2-Ethylhexyl) phthalate	ND	4200	ug/kg
Di-n-octyl phthalate	ND	4200	ug/kg
Benzo(b)fluoranthene	ND	4200	ug/kg
Benzo(k)fluoranthene	ND	4200	ug/kg
Benzo(a)pyrene	ND	4200	ug/kg
Indeno(1,2,3-cd)pyrene	ND	4200	ug/kg
Dibenz(a,h)anthracene	ND	4200	ug/kg
Benzo(ghi)perylene	ND	4200	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(25 - 121)
Phenol-d5	NC,DIL	(24 - 113)
Nitrobenzene-d5	NC,DIL	(23 - 120)
2-Fluorobiphenyl	NC,DIL	(30 - 115)
2,4,6-Tribromophenol	NC,DIL	(19 - 122)
Terphenyl-d14	NC,DIL	(20 - 138)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7400

GC/MS Semivolatiles

Lot-Sample #...: H8F090177-003 **Work Order #...:** CHVKG103 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/10/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8161130
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	390	ug/kg
bis(2-Chloroethyl) ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	390	ug/kg
4-Methylphenol	ND	390	ug/kg
N-Nitrosodi-n-propylamine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichlorobenzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	390	ug/kg
2,4,5-Trichlorophenol	ND	390	ug/kg
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	390	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7400

GC/MS Semivolatiles

Lot-Sample #...: H8F090177-003 **Work Order #...:** CHVKG103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Carbazole	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(25 - 121)
Phenol-d5	72	(24 - 113)
Nitrobenzene-d5	72	(23 - 120)
2-Fluorobiphenyl	75	(30 - 115)
2,4,6-Tribromophenol	86	(19 - 122)
Terphenyl-d14	77	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

GC/MS Semivolatiles

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL103 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8167117
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	400	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

GC/MS Semivolatiles

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	400	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	ND	400	ug/kg
Benzo(k)fluoranthene	ND	400	ug/kg
Benzo(a)pyrene	ND	400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	ND	400	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(25 - 121)
Phenol-d5	64	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
2-Fluorobiphenyl	63	(30 - 115)
2,4,6-Tribromophenol	88	(19 - 122)
Terphenyl-d14	75	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7450

GC/MS Semivolatiles

Lot-Sample #...: H8F110181-002 **Work Order #...:** CHXJX103 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/11/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8167117
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	ND	410	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7450

GC/MS Semivolatiles

Lot-Sample #...: H8F110181-002 **Work Order #...:** CHXJX103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	410	ug/kg
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(25 - 121)
Phenol-d5	80	(24 - 113)
Nitrobenzene-d5	76	(23 - 120)
2-Fluorobiphenyl	74	(30 - 115)
2,4,6-Tribromophenol	92	(19 - 122)
Terphenyl-d14	87	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7480

GC/MS Semivolatiles

Lot-Sample #...: H8F110181-004 **Work Order #...:** CHXK1103 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8167117
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	380	ug/kg
bis(2-Chloroethyl) ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichlorobenzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg
2,4,5-Trichlorophenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	ND	380	ug/kg
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	380	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7480

GC/MS Semivolatiles

Lot-Sample #...: H8F110181-004 **Work Order #...:** CHXK1103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	380	ug/kg
Anthracene	ND	380	ug/kg
Carbazole	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	ND	380	ug/kg
Pyrene	ND	380	ug/kg
Butyl benzyl phthalate	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	380	ug/kg
Chrysene	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	ND	380	ug/kg
Benzo(k)fluoranthene	ND	380	ug/kg
Benzo(a)pyrene	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg
Dibenz(a,h)anthracene	ND	380	ug/kg
Benzo(ghi)perylene	ND	380	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(25 - 121)
Phenol-d5	78	(24 - 113)
Nitrobenzene-d5	76	(23 - 120)
2-Fluorobiphenyl	74	(30 - 115)
2,4,6-Tribromophenol	86	(19 - 122)
Terphenyl-d14	86	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7560

GC/MS Semivolatiles

Lot-Sample #...: H8F110181-007 **Work Order #...:** CHXK4103 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8167117
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	370	ug/kg
bis(2-Chloroethyl) ether	ND	370	ug/kg
2-Chlorophenol	ND	370	ug/kg
1,3-Dichlorobenzene	ND	370	ug/kg
1,4-Dichlorobenzene	ND	370	ug/kg
1,2-Dichlorobenzene	ND	370	ug/kg
2-Methylphenol	ND	370	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	370	ug/kg
4-Methylphenol	ND	370	ug/kg
N-Nitrosodi-n-propylamine	ND	370	ug/kg
Hexachloroethane	ND	370	ug/kg
Nitrobenzene	ND	370	ug/kg
Isophorone	ND	370	ug/kg
2-Nitrophenol	ND	370	ug/kg
2,4-Dimethylphenol	ND	370	ug/kg
bis(2-Chloroethoxy) methane	ND	370	ug/kg
2,4-Dichlorophenol	ND	370	ug/kg
1,2,4-Trichlorobenzene	ND	370	ug/kg
Naphthalene	ND	370	ug/kg
4-Chloroaniline	ND	370	ug/kg
Hexachlorobutadiene	ND	370	ug/kg
4-Chloro-3-methylphenol	ND	370	ug/kg
2-Methylnaphthalene	ND	370	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	370	ug/kg
2,4,5-Trichlorophenol	ND	370	ug/kg
2-Chloronaphthalene	ND	370	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	370	ug/kg
Acenaphthylene	ND	370	ug/kg
2,6-Dinitrotoluene	ND	370	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	370	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	370	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7560

GC/MS Semivolatiles

Lot-Sample #...: H8F110181-007 **Work Order #...:** CHXK4103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	370	ug/kg
Diethyl phthalate	ND	370	ug/kg
4-Chlorophenyl phenyl ether	ND	370	ug/kg
Fluorene	ND	370	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	370	ug/kg
4-Bromophenyl phenyl ether	ND	370	ug/kg
Hexachlorobenzene	ND	370	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	370	ug/kg
Anthracene	ND	370	ug/kg
Carbazole	ND	370	ug/kg
Di-n-butyl phthalate	ND	370	ug/kg
Fluoranthene	ND	370	ug/kg
Pyrene	ND	370	ug/kg
Butyl benzyl phthalate	ND	370	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	370	ug/kg
Chrysene	ND	370	ug/kg
bis(2-Ethylhexyl) phthalate	ND	370	ug/kg
Di-n-octyl phthalate	ND	370	ug/kg
Benzo(b)fluoranthene	ND	370	ug/kg
Benzo(k)fluoranthene	ND	370	ug/kg
Benzo(a)pyrene	ND	370	ug/kg
Indeno(1,2,3-cd)pyrene	ND	370	ug/kg
Dibenz(a,h)anthracene	ND	370	ug/kg
Benzo(ghi)perylene	ND	370	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(25 - 121)
Phenol-d5	76	(24 - 113)
Nitrobenzene-d5	68	(23 - 120)
2-Fluorobiphenyl	68	(30 - 115)
2,4,6-Tribromophenol	85	(19 - 122)
Terphenyl-d14	78	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7820

GC/MS Semivolatiles

Lot-Sample #...: H8F150116-003 **Work Order #...:** CJ1WF103 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
Prep Date.....: 06/16/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8167117
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	**49 J**	**410**	**ug/kg**
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7820

GC/MS Semivolatiles

Lot-Sample #...: H8F150116-003 **Work Order #...:** CJ1WF103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	**190 J**	**410**	**ug/kg**
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(25 - 121)
Phenol-d5	75	(24 - 113)
Nitrobenzene-d5	69	(23 - 120)
2-Fluorobiphenyl	67	(30 - 115)
2,4,6-Tribromophenol	88	(19 - 122)
Terphenyl-d14	77	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CHVMH101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F100000-130

Prep Date.....: 06/10/98
Analysis Date..: 06/25/98 **Prep Batch #...:** 8161130
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CHRV9102-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F060137-002 CHRV9103-MSD
Date Sampled...: 06/05/98 **Date Received..:** 06/06/98
Prep Date.....: 06/10/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8161130
Dilution Factor: 1 **% Moisture.....:** 16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**59**	**(23 - 115)**			**SW846 8270B**
	65	**(23 - 115)**	**9.6**	**(0-41)**	**SW846 8270B**
2-Chlorophenol	**62**	**(20 - 118)**			**SW846 8270B**
	70	**(20 - 118)**	**13**	**(0-42)**	**SW846 8270B**
1,4-Dichlorobenzene	**54**	**(16 - 116)**			**SW846 8270B**
	64	**(16 - 116)**	**17**	**(0-43)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**40**	**(12 - 126)**			**SW846 8270B**
	51	**(12 - 126)**	**25**	**(0-42)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**68**	**(19 - 124)**			**SW846 8270B**
	83	**(19 - 124)**	**19**	**(0-46)**	**SW846 8270B**
4-Chloro-3-methylphenol	**65**	**(28 - 119)**			**SW846 8270B**
	74	**(28 - 119)**	**13**	**(0-35)**	**SW846 8270B**
Acenaphthene	**63**	**(23 - 125)**			**SW846 8270B**
	75	**(23 - 125)**	**17**	**(0-40)**	**SW846 8270B**
4-Nitrophenol	**63**	**(15 - 130)**			**SW846 8270B**
	73	**(15 - 130)**	**15**	**(0-54)**	**SW846 8270B**
2,4-Dinitrotoluene	**60**	**(26 - 122)**			**SW846 8270B**
	69	**(26 - 122)**	**15**	**(0-32)**	**SW846 8270B**
Pentachlorophenol	**44**	**(10 - 134)**			**SW846 8270B**
	62	**(10 - 134)**	**34**	**(0-53)**	**SW846 8270B**
Pyrene	**68**	**(28 - 128)**			**SW846 8270B**
	79	**(28 - 128)**	**16**	**(0-42)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
	64	(25 - 121)
Phenol-d5	58	(24 - 113)
	66	(24 - 113)
Nitrobenzene-d5	57	(23 - 120)
	68	(23 - 120)
2-Fluorobiphenyl	65	(30 - 115)
	77	(30 - 115)
2,4,6-Tribromophenol	73	(19 - 122)
	83	(19 - 122)
Terphenyl-d14	69	(20 - 138)
	80	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CHVMH102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F100000-130
Prep Date.....: 06/10/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8161130
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**71**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**71**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**68**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**56**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**78**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**77**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**73**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**101**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**75**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**70**	**(17 - 117)**	**SW846 8270B**
Pyrene	**71**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	65	(25 - 121)
Phenol-d5	74	(24 - 113)
Nitrobenzene-d5	84	(23 - 120)
2-Fluorobiphenyl	79	(30 - 115)
2,4,6-Tribromophenol	72	(19 - 122)
Terphenyl-d14	82	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CJ2AF101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F160000-117

Prep Date.....: 06/16/98
Analysis Date..: 06/24/98 **Prep Batch #...:** 8167117
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CJ2AF101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(25 - 121)
Phenol-d5	69	(24 - 113)
Nitrobenzene-d5	69	(23 - 120)
2-Fluorobiphenyl	69	(30 - 115)
2,4,6-Tribromophenol	72	(19 - 122)
Terphenyl-d14	74	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CJ2AF102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F160000-117
Prep Date.....: 06/16/98 **Analysis Date..:** 06/24/98
Prep Batch #...: 8167117
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**70**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**75**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**69**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**71**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**81**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**80**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**75**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**74**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**75**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**77**	**(17 - 117)**	**SW846 8270B**
Pyrene	**77**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(25 - 121)
Phenol-d5	73	(24 - 113)
Nitrobenzene-d5	74	(23 - 120)
2-Fluorobiphenyl	69	(30 - 115)
2,4,6-Tribromophenol	74	(19 - 122)
Terphenyl-d14	78	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7290

GC Semivolatiles

Lot-Sample #...:	H8F090177-002	Work Order #...:	CHVKF104	Matrix.....:	SOLID
Date Sampled...:	06/08/98	Date Received..:	06/09/98		
Prep Date.....:	06/11/98	Analysis Date..:	06/30/98		
Prep Batch #...:	8162113				
Dilution Factor:	5				
% Moisture.....:	21	Method.....:	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	210	ug/kg
Aroclor 1221	ND	210	ug/kg
Aroclor 1232	ND	210	ug/kg
Aroclor 1242	ND	210	ug/kg
Aroclor 1248	ND	210	ug/kg
Aroclor 1254	ND	210	ug/kg
Aroclor 1260	ND	210	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	710 *	(40 - 134)
Decachlorobiphenyl	129	(38 - 174)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7400

GC Semivolatiles

Lot-Sample #...: H8F090177-003 Work Order #...: CHVKG104 Matrix.....: SOLID
Date Sampled...: 06/08/98 Date Received..: 06/09/98
Prep Date.....: 06/11/98 Analysis Date..: 06/26/98
Prep Batch #...: 8162113
Dilution Factor: 1
% Moisture.....: 16 Method.....: SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(40 - 134)
Decachlorobiphenyl	79	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

GC Semivolatiles

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL104 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8162113
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	22 *	(40 - 134)
Decachlorobiphenyl	24 *	(38 - 174)

NOTE(S):

* *Surrogate recovery is outside stated control limits.*

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

GC Semivolatiles

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL204 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182118
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	98	(40 - 134)
Decachlorobiphenyl	95	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7450

GC Semivolatiles

Lot-Sample #...: H8F110181-002 **Work Order #...:** CHXJX104 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/11/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(40 - 134)
Decachlorobiphenyl	83	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7480

GC Semivolatiles

Lot-Sample #...:	H8F110181-004	**Work Order #...:**	CHXK1104	**Matrix.....:**	SOLID
Date Sampled...:	06/10/98	**Date Received..:**	06/11/98		
Prep Date.....:	06/17/98	**Analysis Date..:**	07/07/98		
Prep Batch #...:	8168122				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	ND	38	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	67	(40 - 134)
Decachlorobiphenyl	74	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7560

GC Semivolatiles

Lot-Sample #...: H8F110181-007 **Work Order #...:** CHXK4104 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	37	ug/kg
Aroclor 1221	ND	37	ug/kg
Aroclor 1232	ND	37	ug/kg
Aroclor 1242	ND	37	ug/kg
Aroclor 1248	ND	37	ug/kg
Aroclor 1254	ND	37	ug/kg
Aroclor 1260	ND	37	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(40 - 134)
Decachlorobiphenyl	93	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7820

GC Semivolatiles

Lot-Sample #...: H8F150116-003 **Work Order #...:** CJ1WF104 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(40 - 134)
Decachlorobiphenyl	74	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CHWP6101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F110000-113

Prep Date.....: 06/11/98
Analysis Date..: 06/26/98 **Prep Batch #...:** 8162113
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(40 - 134)
Decachlorobiphenyl	79	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H8F100143 **Work Order #...:** CHW32102-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F100143-001 CHW32103-MSD
Date Sampled...: 06/08/98 **Date Received..:** 06/10/98
Prep Date.....: 06/11/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8162113
Dilution Factor: 1 **% Moisture.....:** 24

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**108**	**(52 - 144)**			**SW846 8081**
	106	**(52 - 144)**	**1.8**	**(0-25)**	**SW846 8081**
Aroclor 1260	**101**	**(45 - 143)**			**SW846 8081**
	99	**(45 - 143)**	**2.3**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(40 - 134)
	85	(40 - 134)
Decachlorobiphenyl	97	(38 - 174)
	94	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CHWP6102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F110000-113
Prep Date.....: 06/11/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8162113
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**101**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**90**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(40 - 134)
Decachlorobiphenyl	87	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CJ367101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F170000-122

Prep Date.....: 06/17/98
Analysis Date..: 07/07/98 **Prep Batch #...:** 8168122
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(40 - 134)
Decachlorobiphenyl	76	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CJ367102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F170000-122
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**92**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**83**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(40 - 134)
Decachlorobiphenyl	85	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CJG0G101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G010000-118

Prep Date.....: 07/01/98
Analysis Date..: 07/01/98 **Prep Batch #...:** 8182118
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	87	(40 - 134)
Decachlorobiphenyl	79	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB028 **Work Order #...:** CJG0G102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G010000-118
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182118
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**102**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**92**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	103	(40 - 134)
Decachlorobiphenyl	99	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7280

HPLC

Lot-Sample #...: H8F090177-001 **Work Order #...:** CHVK9102 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 8.7 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**1.2**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7290

HPLC

Lot-Sample #...: H8F090177-002 **Work Order #...:** CHVKF105 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8169165
Dilution Factor: 10
% Moisture.....: 21 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	2.5	mg/kg
1,3-Dinitrobenzene	**9.3**	**2.5**	**mg/kg**
2,4-Dinitrotoluene	**25**	**2.5**	**mg/kg**
2,6-Dinitrotoluene	ND	2.5	mg/kg
HMX	ND	5.0	mg/kg
Nitrobenzene	ND	2.5	mg/kg
2-Nitrotoluene	ND	2.5	mg/kg
3-Nitrotoluene	ND	2.5	mg/kg
RDX	ND	5.0	mg/kg
Tetryl	ND	6.5	mg/kg
1,3,5-Trinitrobenzene	**43**	**2.5**	**mg/kg**
2,4,6-Trinitrotoluene	ND	2.5	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(72 - 129)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7400

HPLC

Lot-Sample #...: H8F090177-003 **Work Order #...:** CHVKG105 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	95	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7410

HPLC

Lot-Sample #...: H8F090177-004 **Work Order #...:** CHVKH102 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7420

HPLC

Lot-Sample #...: H8F090177-005 **Work Order #...:** CHVKJ102 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**1.1**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**1.5**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

HPLC

Lot-Sample #...: H8F100187-001 **Work Order #...:** CHWGL105 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	95	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7330

HPLC

Lot-Sample #...: H8F100187-002 **Work Order #...:** CHWGN102 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7340

HPLC

Lot-Sample #...: H8F100187-003 **Work Order #...:** CHWGP102 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/10/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7440

HPLC

Lot-Sample #...: H8F110181-001 **Work Order #...:** CHXJV102 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 6.1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7450

HPLC

Lot-Sample #...: H8F110181-002 **Work Order #...:** CHXJX105 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7460

HPLC

Lot-Sample #...: H8F110181-003 **Work Order #...:** CHXK0102 **Matrix.....:** SOLID
Date Sampled...: 06/09/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	95	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7480

HPLC

Lot-Sample #...: H8F110181-004 **Work Order #...:** CHXK1105 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7490

HPLC

Lot-Sample #...: H8F110181-005 **Work Order #...:** CHXK2102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	96	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7500

HPLC

Lot-Sample #...: H8F110181-006 **Work Order #...:** CHXK3102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7560

HPLC

Lot-Sample #...: H8F110181-007 **Work Order #...:** CHXK4105 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7570

HPLC

Lot-Sample #...: H8F110181-008 **Work Order #...:** CHXK5102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 1
% Moisture.....: 22 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7580

HPLC

Lot-Sample #...: H8F110181-009 **Work Order #...:** CHXK6102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/11/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8169165
Dilution Factor: 5
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND G	2.2	mg/kg
1,3-Dinitrobenzene	**5.2**	**1.2**	**mg/kg**
2,4-Dinitrotoluene	**15**	**1.2**	**mg/kg**
2,6-Dinitrotoluene	**1.7**	**1.2**	**mg/kg**
HMX	ND	2.5	mg/kg
Nitrobenzene	ND	1.2	mg/kg
2-Nitrotoluene	ND	1.2	mg/kg
3-Nitrotoluene	ND	1.2	mg/kg
RDX	ND	2.5	mg/kg
Tetryl	ND	3.2	mg/kg
1,3,5-Trinitrobenzene	**18**	**1.2**	**mg/kg**
2,4,6-Trinitrotoluene	ND	1.2	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(72 - 129)

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7800

HPLC

Lot-Sample #...: H8F150116-001 **Work Order #...:** CJ1W9102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7810

HPLC

Lot-Sample #...: H8F150116-002 **Work Order #...:** CJ1WD102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 9.4 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	126	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7820

HPLC

Lot-Sample #...: H8F150116-003 **Work Order #...:** CJ1WF105 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	**0.25**	**0.25**	**mg/kg**
2,4-Dinitrotoluene	**0.50**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	**0.40**	**0.25**	**mg/kg**
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**1.9**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	111	(72 - 129)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB028 **Work Order #...:** CJ4CQ101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F180000-165

Prep Date.....: 06/18/98
Analysis Date..: 06/29/98 **Prep Batch #...:** 8169165
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB028 **Work Order #...:** CHVK910U-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F090177-001 CHVK910V-MSD
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8169165
Dilution Factor: 1 **% Moisture.....:** 8.7

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	**83**	**(76 - 120)**			**SW846 8330**
	83	**(76 - 120)**	**0.05**	**(0-15)**	**SW846 8330**
4-Nitrotoluene	**88**	**(76 - 122)**			**SW846 8330**
	88	**(76 - 122)**	**0.15**	**(0-25)**	**SW846 8330**
HMX	**77**	**(48 - 125)**			**SW846 8330**
	78	**(48 - 125)**	**0.55**	**(0-15)**	**SW846 8330**
RDX	**82**	**(61 - 127)**			**SW846 8330**
	82	**(61 - 127)**	**0.67**	**(0-15)**	**SW846 8330**
1,3,5-Trinitrobenzene	**110**	**(74 - 126)**			**SW846 8330**
	113	**(74 - 126)**	**2.3**	**(0-15)**	**SW846 8330**
1,3-Dinitrobenzene	**88**	**(71 - 126)**			**SW846 8330**
	88	**(71 - 126)**	**0.55**	**(0-15)**	**SW846 8330**
Tetryl	**77**	**(32 - 143)**			**SW846 8330**
	77	**(32 - 143)**	**0.42**	**(0-26)**	**SW846 8330**
Nitrobenzene	**88**	**(76 - 122)**			**SW846 8330**
	88	**(76 - 122)**	**0.12**	**(0-15)**	**SW846 8330**
2,4,6-Trinitrotoluene	**78**	**(69 - 132)**			**SW846 8330**
	79	**(69 - 132)**	**0.45**	**(0-15)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**90**	**(67 - 127)**			**SW846 8330**
	89	**(67 - 127)**	**0.27**	**(0-15)**	**SW846 8330**
2,6-Dinitrotoluene	**86**	**(75 - 122)**			**SW846 8330**
	85	**(75 - 122)**	**0.53**	**(0-15)**	**SW846 8330**
2,4-Dinitrotoluene	**91**	**(75 - 124)**			**SW846 8330**
	93	**(75 - 124)**	**1.9**	**(0-15)**	**SW846 8330**
2-Nitrotoluene	**88**	**(77 - 125)**			**SW846 8330**
	88	**(77 - 125)**	**0.29**	**(0-15)**	**SW846 8330**
3-Nitrotoluene	**89**	**(76 - 121)**			**SW846 8330**
	88	**(76 - 121)**	**0.55**	**(0-15)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(72 - 129)
	92	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB028 **Work Order #...:** CJ4CQ102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F180000-165
Prep Date.....: 06/18/98 **Analysis Date..:** 06/29/98
Prep Batch #...: 8169165
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**80**	**(65 - 117)**	**SW846 8330**
RDX	**85**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**95**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**89**	**(75 - 123)**	**SW846 8330**
Tetryl	**69**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**89**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**81**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**88**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**89**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**89**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**89**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**90**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**88**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**90**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: PB028 **Work Order #...:** CJ7W4101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F230000-134

Prep Date.....: 06/23/98
Analysis Date..: 07/01/98 **Prep Batch #...:** 8174134
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8F150116 **Work Order #...:** CJ1W910U-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F150116-001 CJ1W910V-MSD
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	**106**	**(76 - 120)**			**SW846 8330**
	106	**(76 - 120)**	**0.0**	**(0-15)**	**SW846 8330**
4-Nitrotoluene	**111**	**(76 - 122)**			**SW846 8330**
	109	**(76 - 122)**	**1.9**	**(0-25)**	**SW846 8330**
HMX	**104**	**(48 - 125)**			**SW846 8330**
	102	**(48 - 125)**	**2.0**	**(0-15)**	**SW846 8330**
RDX	**109**	**(61 - 127)**			**SW846 8330**
	107	**(61 - 127)**	**2.0**	**(0-15)**	**SW846 8330**
1,3,5-Trinitrobenzene	**117**	**(74 - 126)**			**SW846 8330**
	114	**(74 - 126)**	**2.6**	**(0-15)**	**SW846 8330**
1,3-Dinitrobenzene	**111**	**(71 - 126)**			**SW846 8330**
	108	**(71 - 126)**	**2.8**	**(0-15)**	**SW846 8330**
Tetryl	**78**	**(32 - 143)**			**SW846 8330**
	77	**(32 - 143)**	**1.1**	**(0-26)**	**SW846 8330**
Nitrobenzene	**108**	**(76 - 122)**			**SW846 8330**
	106	**(76 - 122)**	**2.1**	**(0-15)**	**SW846 8330**
2,4,6-Trinitrotoluene	**106**	**(69 - 132)**			**SW846 8330**
	104	**(69 - 132)**	**2.1**	**(0-15)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**101**	**(67 - 127)**			**SW846 8330**
	102	**(67 - 127)**	**0.95**	**(0-15)**	**SW846 8330**
2,6-Dinitrotoluene	**114**	**(75 - 122)**			**SW846 8330**
	112	**(75 - 122)**	**2.2**	**(0-15)**	**SW846 8330**
2,4-Dinitrotoluene	**113**	**(75 - 124)**			**SW846 8330**
	110	**(75 - 124)**	**3.2**	**(0-15)**	**SW846 8330**
2-Nitrotoluene	**110**	**(77 - 125)**			**SW846 8330**
	109	**(77 - 125)**	**1.2**	**(0-15)**	**SW846 8330**
3-Nitrotoluene	**116**	**(76 - 121)**			**SW846 8330**
	114	**(76 - 121)**	**1.1**	**(0-15)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	115	(72 - 129)
	110	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8F150116 **Work Order #...:** CJ7W4102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F230000-134
Prep Date.....: 06/23/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8174134
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**96**	**(65 - 117)**	**SW846 8330**
RDX	**109**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**112**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**105**	**(75 - 123)**	**SW846 8330**
Tetryl	**72**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**104**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**87**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**109**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**95**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**100**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**99**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**102**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**105**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**101**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7280

TOTAL Metals

Lot-Sample #...: H8F090177-001 Matrix.....: SOLID
Date Sampled...: 06/08/98 Date Received..: 06/09/98
% Moisture.....: 8.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.036	mg/kg	SW846 7471A	06/24-06/25/98	CHVK910T
		Dilution Factor: 1		Analysis Time..: 11:59		
Prep Batch #...: 8177108						
Aluminum	6330	21.9	mg/kg	SW846 6010A	06/26-06/29/98	CHVK9103
		Dilution Factor: 1		Analysis Time..: 15:18		
Arsenic	5.4	1.1	mg/kg	SW846 6010A	06/26-06/30/98	CHVK910N
		Dilution Factor: 1		Analysis Time..: 20:04		
Lead	9.3	0.33	mg/kg	SW846 6010A	06/26-06/30/98	CHVK910P
		Dilution Factor: 1		Analysis Time..: 20:04		
Antimony	ND	6.6	mg/kg	SW846 6010A	06/26-06/29/98	CHVK9104
		Dilution Factor: 1		Analysis Time..: 15:18		
Barium	65.7	21.9	mg/kg	SW846 6010A	06/26-06/29/98	CHVK9105
		Dilution Factor: 1		Analysis Time..: 15:18		
Selenium	0.59	0.55	mg/kg	SW846 6010A	06/26-06/30/98	CHVK910Q
		Dilution Factor: 1		Analysis Time..: 20:04		
Beryllium	ND	0.55	mg/kg	SW846 6010A	06/26-06/29/98	CHVK9106
		Dilution Factor: 1		Analysis Time..: 15:18		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/26-06/30/98	CHVK910R
		Dilution Factor: 1		Analysis Time..: 20:04		
Cadmium	ND	0.55	mg/kg	SW846 6010A	06/26-06/29/98	CHVK9107
		Dilution Factor: 1		Analysis Time..: 15:18		
Calcium	2560	548	mg/kg	SW846 6010A	06/26-06/29/98	CHVK9108
		Dilution Factor: 1		Analysis Time..: 15:18		
Chromium	8.7	1.1	mg/kg	SW846 6010A	06/26-06/29/98	CHVK9109
		Dilution Factor: 1		Analysis Time..: 15:18		
Cobalt	ND	5.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910A
		Dilution Factor: 1		Analysis Time..: 15:18		
Copper	8.4	2.7	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910C
		Dilution Factor: 1		Analysis Time..: 15:18		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7280

TOTAL Metals

Lot-Sample #...: H8F090177-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	14100	11.0	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910D
		Dilution Factor: 1		Analysis Time..: 15:18		
Magnesium	1160	548	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910E
		Dilution Factor: 1		Analysis Time..: 15:18		
Manganese	320	1.6	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910F
		Dilution Factor: 1		Analysis Time..: 15:18		
Nickel	9.3	4.4	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910G
		Dilution Factor: 1		Analysis Time..: 15:18		
Potassium	ND	548	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910H
		Dilution Factor: 1		Analysis Time..: 15:18		
Silver	ND	1.1	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910J
		Dilution Factor: 1		Analysis Time..: 15:18		
Sodium	ND	548	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910K
		Dilution Factor: 1		Analysis Time..: 15:18		
Vanadium	17.3	5.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910L
		Dilution Factor: 1		Analysis Time..: 15:18		
Zinc	34.2	2.2	mg/kg	SW846 6010A	06/26-06/29/98	CHVK910M
		Dilution Factor: 1		Analysis Time..: 15:18		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7290

TOTAL Metals

Lot-Sample #...: H8F090177-002 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.042	mg/kg	SW846 7471A	06/24-06/25/98	CHVKF10W
		Dilution Factor: 1		Analysis Time..: 12:01		
Prep Batch #...: 8177108						
Aluminum	**9580**	**25.3**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKF106**
		Dilution Factor: 1		Analysis Time..: 15:23		
Arsenic	**9.7**	**1.3**	**mg/kg**	**SW846 6010A**	**06/26-06/30/98**	**CHVKF10R**
		Dilution Factor: 1		Analysis Time..: 20:09		
Lead	**11.6**	**0.38**	**mg/kg**	**SW846 6010A**	**06/26-06/30/98**	**CHVKF10T**
		Dilution Factor: 1		Analysis Time..: 20:09		
Antimony	ND	7.6	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF107
		Dilution Factor: 1		Analysis Time..: 15:23		
Barium	**67.9**	**25.3**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKF108**
		Dilution Factor: 1		Analysis Time..: 15:23		
Selenium	ND	0.63	mg/kg	SW846 6010A	06/26-06/30/98	CHVKF10U
		Dilution Factor: 1		Analysis Time..: 20:09		
Beryllium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF109
		Dilution Factor: 1		Analysis Time..: 15:23		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CHVKF10V
		Dilution Factor: 1		Analysis Time..: 20:09		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10A
		Dilution Factor: 1		Analysis Time..: 15:23		
Calcium	**2600**	**631**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKF10C**
		Dilution Factor: 1		Analysis Time..: 15:23		
Chromium	**15.7**	**1.3**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKF10D**
		Dilution Factor: 1		Analysis Time..: 15:23		
Cobalt	**6.3**	**6.3**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKF10E**
		Dilution Factor: 1		Analysis Time..: 15:23		
Copper	**18.7**	**3.2**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKF10F**
		Dilution Factor: 1		Analysis Time..: 15:23		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7290

TOTAL Metals

Lot-Sample #...: H8F090177-002 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	23700	12.6	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10G
		Dilution Factor: 1		Analysis Time..: 15:23		
Magnesium	2810	631	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10H
		Dilution Factor: 1		Analysis Time..: 15:23		
Manganese	338	1.9	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10J
		Dilution Factor: 1		Analysis Time..: 15:23		
Nickel	22.9	5.1	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10K
		Dilution Factor: 1		Analysis Time..: 15:23		
Potassium	968	631	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10L
		Dilution Factor: 1		Analysis Time..: 15:23		
Silver	ND	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10M
		Dilution Factor: 1		Analysis Time..: 15:23		
Sodium	3760	631	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10N
		Dilution Factor: 1		Analysis Time..: 15:23		
Vanadium	23.9	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10P
		Dilution Factor: 1		Analysis Time..: 15:23		
Zinc	61.3	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVKF10Q
		Dilution Factor: 1		Analysis Time..: 15:23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7400

TOTAL Metals

Lot-Sample #...: H8F090177-003 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.039	mg/kg	SW846 7471A	06/24-06/25/98	CHVKG10W
		Dilution Factor: 1		Analysis Time..: 12:09		
Prep Batch #...: 8177108						
Aluminum	6110	23.8	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG106
		Dilution Factor: 1		Analysis Time..: 15:43		
Arsenic	3.6	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHVKG10R
		Dilution Factor: 1		Analysis Time..: 20:31		
Lead	3.5	0.36	mg/kg	SW846 6010A	06/26-06/30/98	CHVKG10T
		Dilution Factor: 1		Analysis Time..: 20:31		
Antimony	ND	7.1	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG107
		Dilution Factor: 1		Analysis Time..: 15:43		
Barium	ND	23.8	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG108
		Dilution Factor: 1		Analysis Time..: 15:43		
Selenium	ND	0.59	mg/kg	SW846 6010A	06/26-06/30/98	CHVKG10U
		Dilution Factor: 1		Analysis Time..: 20:31		
Beryllium	ND	0.59	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG109
		Dilution Factor: 1		Analysis Time..: 15:43		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHVKG10V
		Dilution Factor: 1		Analysis Time..: 20:31		
Cadmium	ND	0.59	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10A
		Dilution Factor: 1		Analysis Time..: 15:43		
Calcium	945	594	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10C
		Dilution Factor: 1		Analysis Time..: 15:43		
Chromium	10.9	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10D
		Dilution Factor: 1		Analysis Time..: 15:43		
Cobalt	ND	5.9	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10E
		Dilution Factor: 1		Analysis Time..: 15:43		
Copper	5.9	3.0	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10F
		Dilution Factor: 1		Analysis Time..: 15:43		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7400

TOTAL Metals

Lot-Sample #...: H8F090177-003 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	13700	11.9	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10G
		Dilution Factor: 1		Analysis Time..: 15:43		
Magnesium	885	594	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10H
		Dilution Factor: 1		Analysis Time..: 15:43		
Manganese	166	1.8	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10J
		Dilution Factor: 1		Analysis Time..: 15:43		
Nickel	9.4	4.8	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10K
		Dilution Factor: 1		Analysis Time..: 15:43		
Potassium	ND	594	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10L
		Dilution Factor: 1		Analysis Time..: 15:43		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10M
		Dilution Factor: 1		Analysis Time..: 15:43		
Sodium	ND	594	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10N
		Dilution Factor: 1		Analysis Time..: 15:43		
Vanadium	23.1	5.9	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10P
		Dilution Factor: 1		Analysis Time..: 15:43		
Zinc	22.6	2.4	mg/kg	SW846 6010A	06/26-06/29/98	CHVKG10Q
		Dilution Factor: 1		Analysis Time..: 15:43		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7410

TOTAL Metals

Lot-Sample #...: H8F090177-004 Matrix.....: SOLID
Date Sampled...: 06/08/98 Date Received..: 06/09/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/24-06/25/98	CHVKH10T
		Dilution Factor: 1		Analysis Time..: 12:11		
Prep Batch #...: 8177108						
Aluminum	8710	24.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH103
		Dilution Factor: 1		Analysis Time..: 15:48		
Arsenic	9.1	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHVKH10N
		Dilution Factor: 1		Analysis Time..: 20:37		
Lead	11.3	0.37	mg/kg	SW846 6010A	06/26-06/30/98	CHVKH10P
		Dilution Factor: 1		Analysis Time..: 20:37		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH104
		Dilution Factor: 1		Analysis Time..: 15:48		
Barium	57.3	24.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH105
		Dilution Factor: 1		Analysis Time..: 15:48		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/26-06/30/98	CHVKH10Q
		Dilution Factor: 1		Analysis Time..: 20:37		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH106
		Dilution Factor: 1		Analysis Time..: 15:48		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHVKH10R
		Dilution Factor: 1		Analysis Time..: 20:37		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH107
		Dilution Factor: 1		Analysis Time..: 15:48		
Calcium	62300	613	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH108
		Dilution Factor: 1		Analysis Time..: 15:48		
Chromium	15.9	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH109
		Dilution Factor: 1		Analysis Time..: 15:48		
Cobalt	ND	6.1	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10A
		Dilution Factor: 1		Analysis Time..: 15:48		
Copper	26.2	3.1	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10C
		Dilution Factor: 1		Analysis Time..: 15:48		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7410

TOTAL Metals

Lot-Sample #...: H8F090177-004 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	24200	12.3	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10D
		Dilution Factor: 1		Analysis Time..: 15:48		
Magnesium	16000	613	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10E
		Dilution Factor: 1		Analysis Time..: 15:48		
Manganese	430	1.8	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10F
		Dilution Factor: 1		Analysis Time..: 15:48		
Nickel	22.9	4.9	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10G
		Dilution Factor: 1		Analysis Time..: 15:48		
Potassium	1380	613	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10H
		Dilution Factor: 1		Analysis Time..: 15:48		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10J
		Dilution Factor: 1		Analysis Time..: 15:48		
Sodium	ND	613	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10K
		Dilution Factor: 1		Analysis Time..: 15:48		
Vanadium	27.1	6.1	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10L
		Dilution Factor: 1		Analysis Time..: 15:48		
Zinc	68.9	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVKH10M
		Dilution Factor: 1		Analysis Time..: 15:48		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7420

TOTAL Metals

Lot-Sample #...: H8F090177-005 Matrix.....: SOLID
Date Sampled...: 06/08/98 Date Received..: 06/09/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CHVKJ10T
		Dilution Factor: 1		Analysis Time..: 12:13		
Prep Batch #...: 8177108						
Aluminum	**7260**	**25.1**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKJ103**
		Dilution Factor: 1		Analysis Time..: 15:53		
Arsenic	**5.3**	**1.3**	**mg/kg**	**SW846 6010A**	**06/26-06/30/98**	**CHVKJ10N**
		Dilution Factor: 1		Analysis Time..: 20:42		
Lead	**7.6**	**0.38**	**mg/kg**	**SW846 6010A**	**06/26-06/30/98**	**CHVKJ10P**
		Dilution Factor: 1		Analysis Time..: 20:42		
Antimony	ND	7.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ104
		Dilution Factor: 1		Analysis Time..: 15:53		
Barium	**44.9**	**25.1**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKJ105**
		Dilution Factor: 1		Analysis Time..: 15:53		
Selenium	ND	0.63	mg/kg	SW846 6010A	06/26-06/30/98	CHVKJ10Q
		Dilution Factor: 1		Analysis Time..: 20:42		
Beryllium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ106
		Dilution Factor: 1		Analysis Time..: 15:53		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CHVKJ10R
		Dilution Factor: 1		Analysis Time..: 20:42		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ107
		Dilution Factor: 1		Analysis Time..: 15:53		
Calcium	**43700**	**627**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKJ108**
		Dilution Factor: 1		Analysis Time..: 15:53		
Chromium	**14.4**	**1.3**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKJ109**
		Dilution Factor: 1		Analysis Time..: 15:53		
Cobalt	ND	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10A
		Dilution Factor: 1		Analysis Time..: 15:53		
Copper	**15.2**	**3.1**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHVKJ10C**
		Dilution Factor: 1		Analysis Time..: 15:53		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7420

TOTAL Metals

Lot-Sample #...: H8F090177-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	15300	12.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10D
		Dilution Factor: 1		Analysis Time..: 15:53		
Magnesium	12600	627	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10E
		Dilution Factor: 1		Analysis Time..: 15:53		
Manganese	321	1.9	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10F
		Dilution Factor: 1		Analysis Time..: 15:53		
Nickel	17.6	5.0	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10G
		Dilution Factor: 1		Analysis Time..: 15:53		
Potassium	1190	627	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10H
		Dilution Factor: 1		Analysis Time..: 15:53		
Silver	ND	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10J
		Dilution Factor: 1		Analysis Time..: 15:53		
Sodium	ND	627	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10K
		Dilution Factor: 1		Analysis Time..: 15:53		
Vanadium	21.8	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10L
		Dilution Factor: 1		Analysis Time..: 15:53		
Zinc	45.5	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CHVKJ10M
		Dilution Factor: 1		Analysis Time..: 15:53		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

TOTAL Metals

Lot-Sample #...: H8F100187-001 Matrix.....: SOLID
Date Sampled...: 06/09/98 Date Received..: 06/10/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/24-06/25/98	CHWGL10W
		Dilution Factor: 1		Analysis Time..: 12:16		
Prep Batch #...: 8177108						
Aluminum	**7030**	**24.1**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHWGL106**
		Dilution Factor: 1		Analysis Time..: 15:58		
Arsenic	**6.6**	**1.2**	**mg/kg**	**SW846 6010A**	**06/26-06/30/98**	**CHWGL10R**
		Dilution Factor: 1		Analysis Time..: 20:48		
Lead	**4.3**	**0.36**	**mg/kg**	**SW846 6010A**	**06/26-06/30/98**	**CHWGL10T**
		Dilution Factor: 1		Analysis Time..: 20:48		
Antimony	ND	7.2	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL107
		Dilution Factor: 1		Analysis Time..: 15:58		
Barium	**37.2**	**24.1**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHWGL108**
		Dilution Factor: 1		Analysis Time..: 15:58		
Selenium	ND	0.60	mg/kg	SW846 6010A	06/26-06/30/98	CHWGL10U
		Dilution Factor: 1		Analysis Time..: 20:48		
Beryllium	ND	0.60	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL109
		Dilution Factor: 1		Analysis Time..: 15:58		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHWGL10V
		Dilution Factor: 1		Analysis Time..: 20:48		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10A
		Dilution Factor: 1		Analysis Time..: 15:58		
Calcium	**2680**	**603**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHWGL10C**
		Dilution Factor: 1		Analysis Time..: 15:58		
Chromium	**15.5**	**1.2**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHWGL10D**
		Dilution Factor: 1		Analysis Time..: 15:58		
Cobalt	ND	6.0	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10E
		Dilution Factor: 1		Analysis Time..: 15:58		
Copper	**7.0**	**3.0**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHWGL10F**
		Dilution Factor: 1		Analysis Time..: 15:58		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7320

TOTAL Metals

Lot-Sample #...: H8F100187-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	16700	12.1	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10G
		Dilution Factor: 1		Analysis Time..: 15:58		
Magnesium	1290	603	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10H
		Dilution Factor: 1		Analysis Time..: 15:58		
Manganese	144	1.8	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10J
		Dilution Factor: 1		Analysis Time..: 15:58		
Nickel	12.2	4.8	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10K
		Dilution Factor: 1		Analysis Time..: 15:58		
Potassium	ND	603	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10L
		Dilution Factor: 1		Analysis Time..: 15:58		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10M
		Dilution Factor: 1		Analysis Time..: 15:58		
Sodium	ND	603	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10N
		Dilution Factor: 1		Analysis Time..: 15:58		
Vanadium	28.5	6.0	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10P
		Dilution Factor: 1		Analysis Time..: 15:58		
Zinc	30.6	2.4	mg/kg	SW846 6010A	06/26-06/29/98	CHWGL10Q
		Dilution Factor: 1		Analysis Time..: 15:58		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7330

TOTAL Metals

Lot-Sample #...: H8F100187-002 Matrix.....: SOLID
Date Sampled...: 06/09/98 Date Received..: 06/10/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.042	mg/kg	SW846 7471A	06/24-06/25/98	CHWGN10T
		Dilution Factor: 1		Analysis Time..: 12:18		
Prep Batch #...: 8177108						
Aluminum	6990	25.2	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN103
		Dilution Factor: 1		Analysis Time..: 16:13		
Arsenic	5.4	1.3	mg/kg	SW846 6010A	06/26-07/01/98	CHWGN10N
		Dilution Factor: 1		Analysis Time..: 13:30		
Lead	9.8	0.38	mg/kg	SW846 6010A	06/26-07/01/98	CHWGN10P
		Dilution Factor: 1		Analysis Time..: 13:30		
Antimony	ND	7.6	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN104
		Dilution Factor: 1		Analysis Time..: 16:13		
Barium	39.4	25.2	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN105
		Dilution Factor: 1		Analysis Time..: 16:13		
Selenium	0.64	0.63	mg/kg	SW846 6010A	06/26-07/01/98	CHWGN10Q
		Dilution Factor: 1		Analysis Time..: 13:30		
Beryllium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN106
		Dilution Factor: 1		Analysis Time..: 16:13		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/26-07/01/98	CHWGN10R
		Dilution Factor: 1		Analysis Time..: 13:30		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN107
		Dilution Factor: 1		Analysis Time..: 16:13		
Calcium	19800	631	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN108
		Dilution Factor: 1		Analysis Time..: 16:13		
Chromium	12.4	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN109
		Dilution Factor: 1		Analysis Time..: 16:13		
Cobalt	7.4	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10A
		Dilution Factor: 1		Analysis Time..: 16:13		
Copper	13.3	3.2	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10C
		Dilution Factor: 1		Analysis Time..: 16:13		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7330

TOTAL Metals

Lot-Sample #...: H8F100187-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	13900	12.6	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10D
		Dilution Factor: 1		Analysis Time..: 16:13		
Magnesium	10700	631	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10E
		Dilution Factor: 1		Analysis Time..: 16:13		
Manganese	292	1.9	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10F
		Dilution Factor: 1		Analysis Time..: 16:13		
Nickel	16.6	5.0	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10G
		Dilution Factor: 1		Analysis Time..: 16:13		
Potassium	864	631	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10H
		Dilution Factor: 1		Analysis Time..: 16:13		
Silver	ND	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10J
		Dilution Factor: 1		Analysis Time..: 16:13		
Sodium	ND	631	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10K
		Dilution Factor: 1		Analysis Time..: 16:13		
Vanadium	19.7	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10L
		Dilution Factor: 1		Analysis Time..: 16:13		
Zinc	43.7	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CHWGN10M
		Dilution Factor: 1		Analysis Time..: 16:13		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7340

TOTAL Metals

Lot-Sample #...: H8F100187-003 Matrix.....: SOLID
Date Sampled...: 06/09/98 Date Received..: 06/10/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.042	mg/kg	SW846 7471A	06/24-06/25/98	CHWGP10T
		Dilution Factor: 1		Analysis Time..: 12:20		
Prep Batch #...: 8177108						
Aluminum	8040	25.2	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP103
		Dilution Factor: 1		Analysis Time..: 16:18		
Arsenic	5.2	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CHWGP10N
		Dilution Factor: 1		Analysis Time..: 21:05		
Lead	10.3	0.38	mg/kg	SW846 6010A	06/26-06/30/98	CHWGP10P
		Dilution Factor: 1		Analysis Time..: 21:05		
Antimony	ND	7.6	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP104
		Dilution Factor: 1		Analysis Time..: 16:18		
Barium	50.5	25.2	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP105
		Dilution Factor: 1		Analysis Time..: 16:18		
Selenium	1.1	0.63	mg/kg	SW846 6010A	06/26-06/30/98	CHWGP10Q
		Dilution Factor: 1		Analysis Time..: 21:05		
Beryllium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP106
		Dilution Factor: 1		Analysis Time..: 16:18		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CHWGP10R
		Dilution Factor: 1		Analysis Time..: 21:05		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP107
		Dilution Factor: 1		Analysis Time..: 16:18		
Calcium	61200	630	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP108
		Dilution Factor: 1		Analysis Time..: 16:18		
Chromium	14.1	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP109
		Dilution Factor: 1		Analysis Time..: 16:18		
Cobalt	9.8	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10A
		Dilution Factor: 1		Analysis Time..: 16:18		
Copper	23.6	3.1	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10C
		Dilution Factor: 1		Analysis Time..: 16:18		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7340

TOTAL Metals

Lot-Sample #...: H8F100187-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18200	12.6	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10D
		Dilution Factor: 1		Analysis Time..: 16:18		
Magnesium	19500	630	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10E
		Dilution Factor: 1		Analysis Time..: 16:18		
Manganese	327	1.9	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10F
		Dilution Factor: 1		Analysis Time..: 16:18		
Nickel	25.9	5.0	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10G
		Dilution Factor: 1		Analysis Time..: 16:18		
Potassium	1580	630	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10H
		Dilution Factor: 1		Analysis Time..: 16:18		
Silver	ND	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10J
		Dilution Factor: 1		Analysis Time..: 16:18		
Sodium	ND	630	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10K
		Dilution Factor: 1		Analysis Time..: 16:18		
Vanadium	23.7	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10L
		Dilution Factor: 1		Analysis Time..: 16:18		
Zinc	56.9	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CHWGP10M
		Dilution Factor: 1		Analysis Time..: 16:18		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7440

TOTAL Metals

Lot-Sample #...: H8F110181-001 Matrix.....: SOLID
Date Sampled...: 06/09/98 Date Received..: 06/11/98
% Moisture.....: 6.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.035	mg/kg	SW846 7471A	06/24-06/25/98	CHXJV10T
		Dilution Factor: 1		Analysis Time..: 12:28		
Prep Batch #...: 8177108						
Aluminum	4120	21.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV103
		Dilution Factor: 1		Analysis Time..: 16:23		
Arsenic	2.5	1.1	mg/kg	SW846 6010A	06/26-06/30/98	CHXJV10N
		Dilution Factor: 1		Analysis Time..: 21:10		
Lead	3.2	0.32	mg/kg	SW846 6010A	06/26-06/30/98	CHXJV10P
		Dilution Factor: 1		Analysis Time..: 21:10		
Antimony	ND	6.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV104
		Dilution Factor: 1		Analysis Time..: 16:23		
Barium	ND	21.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV105
		Dilution Factor: 1		Analysis Time..: 16:23		
Selenium	ND	0.53	mg/kg	SW846 6010A	06/26-06/30/98	CHXJV10Q
		Dilution Factor: 1		Analysis Time..: 21:10		
Beryllium	ND	0.53	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV106
		Dilution Factor: 1		Analysis Time..: 16:23		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/26-06/30/98	CHXJV10R
		Dilution Factor: 1		Analysis Time..: 21:10		
Cadmium	ND	0.53	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV107
		Dilution Factor: 1		Analysis Time..: 16:23		
Calcium	1420	532	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV108
		Dilution Factor: 1		Analysis Time..: 16:23		
Chromium	6.1	1.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV109
		Dilution Factor: 1		Analysis Time..: 16:23		
Cobalt	ND	5.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10A
		Dilution Factor: 1		Analysis Time..: 16:23		
Copper	4.3	2.7	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10C
		Dilution Factor: 1		Analysis Time..: 16:23		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7440

TOTAL Metals

Lot-Sample #...: H8F110181-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	8330	10.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10D
		Dilution Factor: 1		Analysis Time..: 16:23		
Magnesium	830	532	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10E
		Dilution Factor: 1		Analysis Time..: 16:23		
Manganese	116	1.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10F
		Dilution Factor: 1		Analysis Time..: 16:23		
Nickel	7.0	4.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10G
		Dilution Factor: 1		Analysis Time..: 16:23		
Potassium	ND	532	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10H
		Dilution Factor: 1		Analysis Time..: 16:23		
Silver	ND	1.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10J
		Dilution Factor: 1		Analysis Time..: 16:23		
Sodium	ND	532	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10K
		Dilution Factor: 1		Analysis Time..: 16:23		
Vanadium	12.9	5.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10L
		Dilution Factor: 1		Analysis Time..: 16:23		
Zinc	17.9	2.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXJV10M
		Dilution Factor: 1		Analysis Time..: 16:23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7450

TOTAL Metals

Lot-Sample #...: H8F110181-002 Matrix.....: SOLID
Date Sampled...: 06/09/98 Date Received..: 06/11/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CHXJX10W
		Dilution Factor: 1		Analysis Time..: 12:30		
Prep Batch #...: 8177108						
Aluminum	8560	24.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX106
		Dilution Factor: 1		Analysis Time..: 16:28		
Arsenic	6.3	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXJX10R
		Dilution Factor: 1		Analysis Time..: 21:16		
Lead	10.3	0.37	mg/kg	SW846 6010A	06/26-06/30/98	CHXJX10T
		Dilution Factor: 1		Analysis Time..: 21:16		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX107
		Dilution Factor: 1		Analysis Time..: 16:28		
Barium	55.3	24.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX108
		Dilution Factor: 1		Analysis Time..: 16:28		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/26-06/30/98	CHXJX10U
		Dilution Factor: 1		Analysis Time..: 21:16		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX109
		Dilution Factor: 1		Analysis Time..: 16:28		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXJX10V
		Dilution Factor: 1		Analysis Time..: 21:16		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10A
		Dilution Factor: 1		Analysis Time..: 16:28		
Calcium	62800	614	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10C
		Dilution Factor: 1		Analysis Time..: 16:28		
Chromium	14.3	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10D
		Dilution Factor: 1		Analysis Time..: 16:28		
Cobalt	13.1	6.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10E
		Dilution Factor: 1		Analysis Time..: 16:28		
Copper	20.3	3.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10F
		Dilution Factor: 1		Analysis Time..: 16:28		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7450

TOTAL Metals

Lot-Sample #...: H8F110181-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	17500	12.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10G
		Dilution Factor: 1		Analysis Time..: 16:28		
Magnesium	19100	614	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10H
		Dilution Factor: 1		Analysis Time..: 16:28		
Manganese	536	1.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10J
		Dilution Factor: 1		Analysis Time..: 16:28		
Nickel	29.7	4.9	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10K
		Dilution Factor: 1		Analysis Time..: 16:28		
Potassium	1720	614	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10L
		Dilution Factor: 1		Analysis Time..: 16:28		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10M
		Dilution Factor: 1		Analysis Time..: 16:28		
Sodium	ND	614	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10N
		Dilution Factor: 1		Analysis Time..: 16:28		
Vanadium	24.4	6.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10P
		Dilution Factor: 1		Analysis Time..: 16:28		
Zinc	54.7	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CHXJX10Q
		Dilution Factor: 1		Analysis Time..: 16:28		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7460

TOTAL Metals

Lot-Sample #...: H8F110181-003 Matrix.....: SOLID
Date Sampled...: 06/09/98 Date Received..: 06/11/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CHXK010T
		Dilution Factor: 1		Analysis Time..: 12:33		
Prep Batch #...: 8177108						
Aluminum	7960	24.7	mg/kg	SW846 6010A	06/26-06/29/98	CHXK0103
		Dilution Factor: 1		Analysis Time..: 16:33		
Arsenic	6.5	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXK010N
		Dilution Factor: 1		Analysis Time..: 21:21		
Lead	10.9	0.37	mg/kg	SW846 6010A	06/26-06/30/98	CHXK010P
		Dilution Factor: 1		Analysis Time..: 21:21		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXK0104
		Dilution Factor: 1		Analysis Time..: 16:33		
Barium	54.5	24.7	mg/kg	SW846 6010A	06/26-06/29/98	CHXK0105
		Dilution Factor: 1		Analysis Time..: 16:33		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/26-06/30/98	CHXK010Q
		Dilution Factor: 1		Analysis Time..: 21:21		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/26-06/29/98	CHXK0106
		Dilution Factor: 1		Analysis Time..: 16:33		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXK010R
		Dilution Factor: 1		Analysis Time..: 21:21		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/26-06/29/98	CHXK0107
		Dilution Factor: 1		Analysis Time..: 16:33		
Calcium	62000	617	mg/kg	SW846 6010A	06/26-06/29/98	CHXK0108
		Dilution Factor: 1		Analysis Time..: 16:33		
Chromium	13.0	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK0109
		Dilution Factor: 1		Analysis Time..: 16:33		
Cobalt	9.8	6.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010A
		Dilution Factor: 1		Analysis Time..: 16:33		
Copper	23.9	3.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010C
		Dilution Factor: 1		Analysis Time..: 16:33		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7460

TOTAL Metals

Lot-Sample #...: H8F110181-003 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	20000	12.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010D
		Dilution Factor: 1		Analysis Time..: 16:33		
Magnesium	19200	617	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010E
		Dilution Factor: 1		Analysis Time..: 16:33		
Manganese	520	1.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010F
		Dilution Factor: 1		Analysis Time..: 16:33		
Nickel	26.1	4.9	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010G
		Dilution Factor: 1		Analysis Time..: 16:33		
Potassium	1660	617	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010H
		Dilution Factor: 1		Analysis Time..: 16:33		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010J
		Dilution Factor: 1		Analysis Time..: 16:33		
Sodium	ND	617	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010K
		Dilution Factor: 1		Analysis Time..: 16:33		
Vanadium	22.9	6.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010L
		Dilution Factor: 1		Analysis Time..: 16:33		
Zinc	61.9	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CHXK010M
		Dilution Factor: 1		Analysis Time..: 16:33		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7480

TOTAL Metals

Lot-Sample #...: H8F110181-004 Matrix.....: SOLID
Date Sampled...: 06/10/98 Date Received..: 06/11/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/24-06/25/98	CHXK110W
		Dilution Factor: 1		Analysis Time..: 12:35		
Prep Batch #...: 8177108						
Aluminum	4450	23.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK1106
		Dilution Factor: 1		Analysis Time..: 16:38		
Arsenic	4.2	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXK110R
		Dilution Factor: 1		Analysis Time..: 21:27		
Lead	3.1	0.35	mg/kg	SW846 6010A	06/26-06/30/98	CHXK110T
		Dilution Factor: 1		Analysis Time..: 21:27		
Antimony	ND	6.9	mg/kg	SW846 6010A	06/26-06/29/98	CHXK1107
		Dilution Factor: 1		Analysis Time..: 16:38		
Barium	ND	23.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK1108
		Dilution Factor: 1		Analysis Time..: 16:38		
Selenium	ND	0.58	mg/kg	SW846 6010A	06/26-06/30/98	CHXK110U
		Dilution Factor: 1		Analysis Time..: 21:27		
Beryllium	ND	0.58	mg/kg	SW846 6010A	06/26-06/29/98	CHXK1109
		Dilution Factor: 1		Analysis Time..: 16:38		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXK110V
		Dilution Factor: 1		Analysis Time..: 21:27		
Cadmium	ND	0.58	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110A
		Dilution Factor: 1		Analysis Time..: 16:38		
Calcium	1820	579	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110C
		Dilution Factor: 1		Analysis Time..: 16:38		
Chromium	10.6	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110D
		Dilution Factor: 1		Analysis Time..: 16:38		
Cobalt	6.0	5.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110E
		Dilution Factor: 1		Analysis Time..: 16:38		
Copper	6.5	2.9	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110F
		Dilution Factor: 1		Analysis Time..: 16:38		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7480

TOTAL Metals

Lot-Sample #...: H8F110181-004 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	13400	11.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110G
		Dilution Factor: 1		Analysis Time..: 16:38		
Magnesium	894	579	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110H
		Dilution Factor: 1		Analysis Time..: 16:38		
Manganese	207	1.7	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110J
		Dilution Factor: 1		Analysis Time..: 16:38		
Nickel	7.9	4.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110K
		Dilution Factor: 1		Analysis Time..: 16:38		
Potassium	ND	579	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110L
		Dilution Factor: 1		Analysis Time..: 16:38		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110M
		Dilution Factor: 1		Analysis Time..: 16:38		
Sodium	ND	579	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110N
		Dilution Factor: 1		Analysis Time..: 16:38		
Vanadium	24.4	5.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110P
		Dilution Factor: 1		Analysis Time..: 16:38		
Zinc	21.7	2.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK110Q
		Dilution Factor: 1		Analysis Time..: 16:38		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7490

TOTAL Metals

Lot-Sample #...: H8F110181-005 Matrix.....: SOLID
Date Sampled...: 06/10/98 Date Received..: 06/11/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/24-06/25/98	CHXK210T
		Dilution Factor: 1		Analysis Time..: 12:37		
Prep Batch #...: 8177108						
Aluminum	8700	24.5	mg/kg	SW846 6010A	06/26-06/29/98	CHXK2103
		Dilution Factor: 1		Analysis Time..: 16:44		
Arsenic	12.9	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXK210N
		Dilution Factor: 1		Analysis Time..: 21:32		
Lead	9.2	0.37	mg/kg	SW846 6010A	06/26-06/30/98	CHXK210P
		Dilution Factor: 1		Analysis Time..: 21:32		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXK2104
		Dilution Factor: 1		Analysis Time..: 16:44		
Barium	42.5	24.5	mg/kg	SW846 6010A	06/26-06/29/98	CHXK2105
		Dilution Factor: 1		Analysis Time..: 16:44		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/26-06/30/98	CHXK210Q
		Dilution Factor: 1		Analysis Time..: 21:32		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/26-06/29/98	CHXK2106
		Dilution Factor: 1		Analysis Time..: 16:44		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXK210R
		Dilution Factor: 1		Analysis Time..: 21:32		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/26-06/29/98	CHXK2107
		Dilution Factor: 1		Analysis Time..: 16:44		
Calcium	57000	613	mg/kg	SW846 6010A	06/26-06/29/98	CHXK2108
		Dilution Factor: 1		Analysis Time..: 16:44		
Chromium	14.6	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK2109
		Dilution Factor: 1		Analysis Time..: 16:44		
Cobalt	9.8	6.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210A
		Dilution Factor: 1		Analysis Time..: 16:44		
Copper	21.7	3.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210C
		Dilution Factor: 1		Analysis Time..: 16:44		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7490

TOTAL Metals

Lot-Sample #...: H8F110181-005 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	19400	12.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210D
		Dilution Factor: 1		Analysis Time..: 16:44		
Magnesium	16800	613	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210E
		Dilution Factor: 1		Analysis Time..: 16:44		
Manganese	283	1.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210F
		Dilution Factor: 1		Analysis Time..: 16:44		
Nickel	25.7	4.9	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210G
		Dilution Factor: 1		Analysis Time..: 16:44		
Potassium	1820	613	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210H
		Dilution Factor: 1		Analysis Time..: 16:44		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210J
		Dilution Factor: 1		Analysis Time..: 16:44		
Sodium	ND	613	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210K
		Dilution Factor: 1		Analysis Time..: 16:44		
Vanadium	24.1	6.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210L
		Dilution Factor: 1		Analysis Time..: 16:44		
Zinc	64.8	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CHXK210M
		Dilution Factor: 1		Analysis Time..: 16:44		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7500

TOTAL Metals

Lot-Sample #...: H8F110181-006 Matrix.....: SOLID
Date Sampled...: 06/10/98 Date Received..: 06/11/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/24-06/25/98	CHXK310T
		Dilution Factor: 1		Analysis Time..: 12:40		
Prep Batch #...: 8177108						
Aluminum	7140	24.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXK3103
		Dilution Factor: 1		Analysis Time..: 16:49		
Arsenic	4.2	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXK310N
		Dilution Factor: 1		Analysis Time..: 21:38		
Lead	7.6	0.37	mg/kg	SW846 6010A	06/26-06/30/98	CHXK310P
		Dilution Factor: 1		Analysis Time..: 21:38		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK3104
		Dilution Factor: 1		Analysis Time..: 16:49		
Barium	47.4	24.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXK3105
		Dilution Factor: 1		Analysis Time..: 16:49		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/26-06/30/98	CHXK310Q
		Dilution Factor: 1		Analysis Time..: 21:38		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/26-06/29/98	CHXK3106
		Dilution Factor: 1		Analysis Time..: 16:49		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CHXK310R
		Dilution Factor: 1		Analysis Time..: 21:38		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/26-06/29/98	CHXK3107
		Dilution Factor: 1		Analysis Time..: 16:49		
Calcium	52200	610	mg/kg	SW846 6010A	06/26-06/29/98	CHXK3108
		Dilution Factor: 1		Analysis Time..: 16:49		
Chromium	12.6	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK3109
		Dilution Factor: 1		Analysis Time..: 16:49		
Cobalt	7.9	6.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310A
		Dilution Factor: 1		Analysis Time..: 16:49		
Copper	16.5	3.0	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310C
		Dilution Factor: 1		Analysis Time..: 16:49		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7500

TOTAL Metals

Lot-Sample #...: H8F110181-006 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	16000	12.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310D
		Dilution Factor: 1		Analysis Time..: 16:49		
Magnesium	15700	610	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310E
		Dilution Factor: 1		Analysis Time..: 16:49		
Manganese	393	1.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310F
		Dilution Factor: 1		Analysis Time..: 16:49		
Nickel	19.6	4.9	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310G
		Dilution Factor: 1		Analysis Time..: 16:49		
Potassium	1580	610	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310H
		Dilution Factor: 1		Analysis Time..: 16:49		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310J
		Dilution Factor: 1		Analysis Time..: 16:49		
Sodium	ND	610	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310K
		Dilution Factor: 1		Analysis Time..: 16:49		
Vanadium	21.3	6.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310L
		Dilution Factor: 1		Analysis Time..: 16:49		
Zinc	46.6	2.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXK310M
		Dilution Factor: 1		Analysis Time..: 16:49		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7560

TOTAL Metals

Lot-Sample #...: H8F110181-007 Matrix.....: SOLID
Date Sampled...: 06/10/98 Date Received..: 06/11/98
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.037	mg/kg	SW846 7471A	06/24-06/25/98	CHXK410W
		Dilution Factor: 1		Analysis Time..: 12:42		
Prep Batch #...: 8177108						
Aluminum	4620	22.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK4106
		Dilution Factor: 1		Analysis Time..: 16:54		
Arsenic	3.4	1.1	mg/kg	SW846 6010A	06/26-06/30/98	CHXK410R
		Dilution Factor: 1		Analysis Time..: 21:44		
Lead	3.2	0.34	mg/kg	SW846 6010A	06/26-06/30/98	CHXK410T
		Dilution Factor: 1		Analysis Time..: 21:44		
Antimony	ND	6.7	mg/kg	SW846 6010A	06/26-06/29/98	CHXK4107
		Dilution Factor: 1		Analysis Time..: 16:54		
Barium	ND	22.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK4108
		Dilution Factor: 1		Analysis Time..: 16:54		
Selenium	ND	0.56	mg/kg	SW846 6010A	06/26-06/30/98	CHXK410U
		Dilution Factor: 1		Analysis Time..: 21:44		
Beryllium	ND	0.56	mg/kg	SW846 6010A	06/26-06/29/98	CHXK4109
		Dilution Factor: 1		Analysis Time..: 16:54		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/26-06/30/98	CHXK410V
		Dilution Factor: 1		Analysis Time..: 21:44		
Cadmium	ND	0.56	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410A
		Dilution Factor: 1		Analysis Time..: 16:54		
Calcium	2440	559	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410C
		Dilution Factor: 1		Analysis Time..: 16:54		
Chromium	10.9	1.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410D
		Dilution Factor: 1		Analysis Time..: 16:54		
Cobalt	ND	5.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410E
		Dilution Factor: 1		Analysis Time..: 16:54		
Copper	5.9	2.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410F
		Dilution Factor: 1		Analysis Time..: 16:54		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7560

TOTAL Metals

Lot-Sample #...: H8F110181-007 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	13700	11.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410G
		Dilution Factor: 1		Analysis Time..: 16:54		
Magnesium	920	559	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410H
		Dilution Factor: 1		Analysis Time..: 16:54		
Manganese	273	1.7	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410J
		Dilution Factor: 1		Analysis Time..: 16:54		
Nickel	9.6	4.5	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410K
		Dilution Factor: 1		Analysis Time..: 16:54		
Potassium	ND	559	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410L
		Dilution Factor: 1		Analysis Time..: 16:54		
Silver	ND	1.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410M
		Dilution Factor: 1		Analysis Time..: 16:54		
Sodium	ND	559	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410N
		Dilution Factor: 1		Analysis Time..: 16:54		
Vanadium	23.6	5.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410P
		Dilution Factor: 1		Analysis Time..: 16:54		
Zinc	24.4	2.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK410Q
		Dilution Factor: 1		Analysis Time..: 16:54		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7570

TOTAL Metals

Lot-Sample #...: H8F110181-008 Matrix.....: SOLID
Date Sampled...: 06/10/98 Date Received..: 06/11/98
% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.043	mg/kg	SW846 7471A	06/24-06/25/98	CHXK510T
		Dilution Factor: 1		Analysis Time..: 12:44		
Prep Batch #...: 8177108						
Aluminum	9510	25.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXK5103
		Dilution Factor: 1		Analysis Time..: 16:59		
Arsenic	5.6	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CHXK510N
		Dilution Factor: 1		Analysis Time..: 21:49		
Lead	11.3	0.39	mg/kg	SW846 6010A	06/26-06/30/98	CHXK510P
		Dilution Factor: 1		Analysis Time..: 21:49		
Antimony	ND	7.7	mg/kg	SW846 6010A	06/26-06/29/98	CHXK5104
		Dilution Factor: 1		Analysis Time..: 16:59		
Barium	81.5	25.8	mg/kg	SW846 6010A	06/26-06/29/98	CHXK5105
		Dilution Factor: 1		Analysis Time..: 16:59		
Selenium	0.71	0.64	mg/kg	SW846 6010A	06/26-06/30/98	CHXK510Q
		Dilution Factor: 1		Analysis Time..: 21:49		
Beryllium	0.83	0.64	mg/kg	SW846 6010A	06/26-06/29/98	CHXK5106
		Dilution Factor: 1		Analysis Time..: 16:59		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CHXK510R
		Dilution Factor: 1		Analysis Time..: 21:49		
Cadmium	ND	0.64	mg/kg	SW846 6010A	06/26-06/29/98	CHXK5107
		Dilution Factor: 1		Analysis Time..: 16:59		
Calcium	4620	644	mg/kg	SW846 6010A	06/26-06/29/98	CHXK5108
		Dilution Factor: 1		Analysis Time..: 16:59		
Chromium	12.6	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK5109
		Dilution Factor: 1		Analysis Time..: 16:59		
Cobalt	ND	6.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510A
		Dilution Factor: 1		Analysis Time..: 16:59		
Copper	17.5	3.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510C
		Dilution Factor: 1		Analysis Time..: 16:59		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7570

TOTAL Metals

Lot-Sample #...: H8F110181-008 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	16100	12.9	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510D
		Dilution Factor: 1		Analysis Time..: 16:59		
Magnesium	2090	644	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510E
		Dilution Factor: 1		Analysis Time..: 16:59		
Manganese	230	1.9	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510F
		Dilution Factor: 1		Analysis Time..: 16:59		
Nickel	11.4	5.2	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510G
		Dilution Factor: 1		Analysis Time..: 16:59		
Potassium	ND	644	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510H
		Dilution Factor: 1		Analysis Time..: 16:59		
Silver	ND	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510J
		Dilution Factor: 1		Analysis Time..: 16:59		
Sodium	4130	644	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510K
		Dilution Factor: 1		Analysis Time..: 16:59		
Vanadium	22.1	6.4	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510L
		Dilution Factor: 1		Analysis Time..: 16:59		
Zinc	49.7	2.6	mg/kg	SW846 6010A	06/26-06/29/98	CHXK510M
		Dilution Factor: 1		Analysis Time..: 16:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7580

TOTAL Metals

Lot-Sample #...: H8F110181-009 Matrix.....: SOLID
Date Sampled...: 06/10/98 Date Received..: 06/11/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CHXK610T
		Dilution Factor: 1		Analysis Time..: 12:47		
Prep Batch #...: 8177108						
Aluminum	11600	25.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK6103
		Dilution Factor: 1		Analysis Time..: 17:14		
Arsenic	14.9	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CHXK610N
		Dilution Factor: 1		Analysis Time..: 21:55		
Lead	14.3	0.38	mg/kg	SW846 6010A	06/26-06/30/98	CHXK610P
		Dilution Factor: 1		Analysis Time..: 21:55		
Antimony	ND	7.5	mg/kg	SW846 6010A	06/26-06/29/98	CHXK6104
		Dilution Factor: 1		Analysis Time..: 17:14		
Barium	90.9	25.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK6105
		Dilution Factor: 1		Analysis Time..: 17:14		
Selenium	ND	0.63	mg/kg	SW846 6010A	06/26-06/30/98	CHXK610Q
		Dilution Factor: 1		Analysis Time..: 21:55		
Beryllium	0.77	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHXK6106
		Dilution Factor: 1		Analysis Time..: 17:14		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CHXK610R
		Dilution Factor: 1		Analysis Time..: 21:55		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CHXK6107
		Dilution Factor: 1		Analysis Time..: 17:14		
Calcium	4510	628	mg/kg	SW846 6010A	06/26-06/29/98	CHXK6108
		Dilution Factor: 1		Analysis Time..: 17:14		
Chromium	20.1	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK6109
		Dilution Factor: 1		Analysis Time..: 17:14		
Cobalt	10.2	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK610A
		Dilution Factor: 1		Analysis Time..: 17:14		
Copper	22.1	3.1	mg/kg	SW846 6010A	06/26-06/29/98	CHXK610C
		Dilution Factor: 1		Analysis Time..: 17:14		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7580

TOTAL Metals

Lot-Sample #...: H8F110181-009 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**28700**	**12.6**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHXK610D**
		Dilution Factor: 1		Analysis Time..: 17:14		
Magnesium	**3970**	**628**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHXK610E**
		Dilution Factor: 1		Analysis Time..: 17:14		
Manganese	**484**	**1.9**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHXK610F**
		Dilution Factor: 1		Analysis Time..: 17:14		
Nickel	**30.0**	**5.0**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHXK610G**
		Dilution Factor: 1		Analysis Time..: 17:14		
Potassium	**1080**	**628**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHXK610H**
		Dilution Factor: 1		Analysis Time..: 17:14		
Silver	ND	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CHXK610J
		Dilution Factor: 1		Analysis Time..: 17:14		
Sodium	**4280**	**628**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHXK610K**
		Dilution Factor: 1		Analysis Time..: 17:14		
Vanadium	**31.6**	**6.3**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHXK610L**
		Dilution Factor: 1		Analysis Time..: 17:14		
Zinc	**72.7**	**2.5**	**mg/kg**	**SW846 6010A**	**06/26-06/29/98**	**CHXK610M**
		Dilution Factor: 1		Analysis Time..: 17:14		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7800

TOTAL Metals

Lot-Sample #...: H8F150116-001 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CJ1W910T
		Dilution Factor: 1		Analysis Time..: 12:49		
Prep Batch #...: 8177108						
Aluminum	7300	24.6	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W9103
		Dilution Factor: 1		Analysis Time..: 17:19		
Arsenic	5.4	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CJ1W910N
		Dilution Factor: 1		Analysis Time..: 22:11		
Lead	7.7	0.37	mg/kg	SW846 6010A	06/26-06/30/98	CJ1W910P
		Dilution Factor: 1		Analysis Time..: 22:11		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W9104
		Dilution Factor: 1		Analysis Time..: 17:19		
Barium	30.4	24.6	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W9105
		Dilution Factor: 1		Analysis Time..: 17:19		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/26-06/30/98	CJ1W910Q
		Dilution Factor: 1		Analysis Time..: 22:11		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W9106
		Dilution Factor: 1		Analysis Time..: 17:19		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/26-06/30/98	CJ1W910R
		Dilution Factor: 1		Analysis Time..: 22:11		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W9107
		Dilution Factor: 1		Analysis Time..: 17:19		
Calcium	7980	616	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W9108
		Dilution Factor: 1		Analysis Time..: 17:19		
Chromium	11.0	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W9109
		Dilution Factor: 1		Analysis Time..: 17:19		
Cobalt	ND	6.2	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910A
		Dilution Factor: 1		Analysis Time..: 17:19		
Copper	11.2	3.1	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910C
		Dilution Factor: 1		Analysis Time..: 17:19		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7800

TOTAL Metals

Lot-Sample #...: H8F150116-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	13300	12.3	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910D
		Dilution Factor: 1		Analysis Time..: 17:19		
Magnesium	3100	616	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910E
		Dilution Factor: 1		Analysis Time..: 17:19		
Manganese	147	1.8	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910F
		Dilution Factor: 1		Analysis Time..: 17:19		
Nickel	12.0	4.9	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910G
		Dilution Factor: 1		Analysis Time..: 17:19		
Potassium	ND	616	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910H
		Dilution Factor: 1		Analysis Time..: 17:19		
Silver	ND	1.2	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910J
		Dilution Factor: 1		Analysis Time..: 17:19		
Sodium	ND	616	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910K
		Dilution Factor: 1		Analysis Time..: 17:19		
Vanadium	21.4	6.2	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910L
		Dilution Factor: 1		Analysis Time..: 17:19		
Zinc	37.4	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CJ1W910M
		Dilution Factor: 1		Analysis Time..: 17:19		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7810

TOTAL Metals

Lot-Sample #...: H8F150116-002 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/15/98
% Moisture.....: 9.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.036	mg/kg	SW846 7471A	06/24-06/25/98	CJ1WD10T
		Dilution Factor: 1		Analysis Time..: 12:57		
Prep Batch #...: 8177108						
Aluminum	9850	22.1	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD103
		Dilution Factor: 1		Analysis Time..: 17:24		
Arsenic	9.7	1.1	mg/kg	SW846 6010A	06/26-06/30/98	CJ1WD10N
		Dilution Factor: 1		Analysis Time..: 22:17		
Lead	10.7	0.33	mg/kg	SW846 6010A	06/26-06/30/98	CJ1WD10P
		Dilution Factor: 1		Analysis Time..: 22:17		
Antimony	ND	6.6	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD104
		Dilution Factor: 1		Analysis Time..: 17:24		
Barium	59.5	22.1	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD105
		Dilution Factor: 1		Analysis Time..: 17:24		
Selenium	ND	0.55	mg/kg	SW846 6010A	06/26-06/30/98	CJ1WD10Q
		Dilution Factor: 1		Analysis Time..: 22:17		
Beryllium	0.55	0.55	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD106
		Dilution Factor: 1		Analysis Time..: 17:24		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/26-06/30/98	CJ1WD10R
		Dilution Factor: 1		Analysis Time..: 22:17		
Cadmium	ND	0.55	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD107
		Dilution Factor: 1		Analysis Time..: 17:24		
Calcium	3080	552	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD108
		Dilution Factor: 1		Analysis Time..: 17:24		
Chromium	17.5	1.1	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD109
		Dilution Factor: 1		Analysis Time..: 17:24		
Cobalt	14.4	5.5	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10A
		Dilution Factor: 1		Analysis Time..: 17:24		
Copper	21.7	2.8	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10C
		Dilution Factor: 1		Analysis Time..: 17:24		

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7810

TOTAL Metals

Lot-Sample #...: H8F150116-002 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	22000	11.0	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10D
		Dilution Factor: 1		Analysis Time..: 17:24		
Magnesium	4020	552	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10E
		Dilution Factor: 1		Analysis Time..: 17:24		
Manganese	437	1.7	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10F
		Dilution Factor: 1		Analysis Time..: 17:24		
Nickel	31.1	4.4	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10G
		Dilution Factor: 1		Analysis Time..: 17:24		
Potassium	1210	552	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10H
		Dilution Factor: 1		Analysis Time..: 17:24		
Silver	ND	1.1	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10J
		Dilution Factor: 1		Analysis Time..: 17:24		
Sodium	1160	552	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10K
		Dilution Factor: 1		Analysis Time..: 17:24		
Vanadium	23.3	5.5	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10L
		Dilution Factor: 1		Analysis Time..: 17:24		
Zinc	67.2	2.2	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WD10M
		Dilution Factor: 1		Analysis Time..: 17:24		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7820

TOTAL Metals

Lot-Sample #...: H8F150116-003 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/15/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175123						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CJ1WF10W
		Dilution Factor: 1		Analysis Time..: 12:59		
Prep Batch #...: 8177108						
Aluminum	9430	25.1	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF106
		Dilution Factor: 1		Analysis Time..: 17:29		
Arsenic	4.8	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CJ1WF10R
		Dilution Factor: 1		Analysis Time..: 22:22		
Lead	10.5	0.38	mg/kg	SW846 6010A	06/26-06/30/98	CJ1WF10T
		Dilution Factor: 1		Analysis Time..: 22:22		
Antimony	ND	7.5	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF107
		Dilution Factor: 1		Analysis Time..: 17:29		
Barium	47.5	25.1	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF108
		Dilution Factor: 1		Analysis Time..: 17:29		
Selenium	ND	0.63	mg/kg	SW846 6010A	06/26-06/30/98	CJ1WF10U
		Dilution Factor: 1		Analysis Time..: 22:22		
Beryllium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF109
		Dilution Factor: 1		Analysis Time..: 17:29		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/26-06/30/98	CJ1WF10V
		Dilution Factor: 1		Analysis Time..: 22:22		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10A
		Dilution Factor: 1		Analysis Time..: 17:29		
Calcium	57600	627	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10C
		Dilution Factor: 1		Analysis Time..: 17:29		
Chromium	16.8	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10D
		Dilution Factor: 1		Analysis Time..: 17:29		
Cobalt	9.1	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10E
		Dilution Factor: 1		Analysis Time..: 17:29		
Copper	24.3	3.1	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10F
		Dilution Factor: 1		Analysis Time..: 17:29		

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7820

TOTAL Metals

Lot-Sample #...: H8F150116-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	19300	12.5	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10G
		Dilution Factor: 1		Analysis Time..: 17:29		
Magnesium	18100	627	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10H
		Dilution Factor: 1		Analysis Time..: 17:29		
Manganese	303	1.9	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10J
		Dilution Factor: 1		Analysis Time..: 17:29		
Nickel	27.0	5.0	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10K
		Dilution Factor: 1		Analysis Time..: 17:29		
Potassium	1750	627	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10L
		Dilution Factor: 1		Analysis Time..: 17:29		
Silver	ND	1.3	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10M
		Dilution Factor: 1		Analysis Time..: 17:29		
Sodium	1090	627	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10N
		Dilution Factor: 1		Analysis Time..: 17:29		
Vanadium	26.1	6.3	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10P
		Dilution Factor: 1		Analysis Time..: 17:29		
Zinc	64.2	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CJ1WF10Q
		Dilution Factor: 1		Analysis Time..: 17:29		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F260000-108 **Prep Batch #...:** 8177108						
Aluminum	ND	20.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510L
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Arsenic	ND	1.0	mg/kg	SW846 6010A	06/26-06/30/98	CJCJ510G
		Dilution Factor: 1				
		Analysis Time..: 19:41				
Antimony	ND	6.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510M
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Lead	ND	0.30	mg/kg	SW846 6010A	06/26-06/30/98	CJCJ510H
		Dilution Factor: 1				
		Analysis Time..: 19:41				
Barium	ND	20.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510N
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Selenium	ND	0.50	mg/kg	SW846 6010A	06/26-06/30/98	CJCJ510J
		Dilution Factor: 1				
		Analysis Time..: 19:41				
Beryllium	ND	0.50	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510P
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Thallium	ND	1.0	mg/kg	SW846 6010A	06/26-06/30/98	CJCJ510K
		Dilution Factor: 1				
		Analysis Time..: 19:41				
Cadmium	ND	0.50	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5101
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Calcium	ND	500	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5102
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Chromium	ND	1.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5103
		Dilution Factor: 1				
		Analysis Time..: 14:44				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	5.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5104
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Copper	ND	2.5	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5105
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Iron	ND	10.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5106
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Magnesium	ND	500	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5107
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Manganese	ND	1.5	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5108
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Nickel	ND	4.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ5109
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Potassium	ND	500	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510A
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Silver	ND	1.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510C
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Sodium	ND	500	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510D
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Vanadium	ND	5.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510E
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Zinc	ND	2.0	mg/kg	SW846 6010A	06/26-06/29/98	CJCJ510F
		Dilution Factor: 1				
		Analysis Time..: 14:44				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F240000-123 **Prep Batch #...:** 8175123						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/24-06/25/98	CJ925101
		Dilution Factor: 1				
		Analysis Time..: 11:49				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F090177-002 **Prep Batch #...:** 8175123							
Mercury	96	(55 - 130)			SW846 7471A	06/24-06/25/98	CHVKF10X
	93	(55 - 130)	3.0	(0-20)	SW846 7471A	06/24-06/25/98	CHVKF110
		Dilution Factor: 1					
		Analysis Time..: 12:04					
MS Lot-Sample #: H8F090177-002 **Prep Batch #...:** 8177108							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF127
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/26-06/29/98	CHVKF128
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Arsenic	83	(80 - 120)			SW846 6010A	06/26-06/30/98	CHVKF11X
	81	(80 - 120)	2.7	(0-20)	SW846 6010A	06/26-06/30/98	CHVKF120
		Dilution Factor: 1					
		Analysis Time..: 20:15					
Antimony	77 N	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF129
	81	(80 - 120)	4.7	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF12A
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Lead	86	(80 - 120)			SW846 6010A	06/26-06/30/98	CHVKF121
	83	(80 - 120)	2.8	(0-20)	SW846 6010A	06/26-06/30/98	CHVKF122
		Dilution Factor: 1					
		Analysis Time..: 20:15					
Barium	98	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF12C
	95	(80 - 120)	1.9	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF12D
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Selenium	82	(80 - 120)			SW846 6010A	06/26-06/30/98	CHVKF123
	80	(80 - 120)	1.4	(0-20)	SW846 6010A	06/26-06/30/98	CHVKF124
		Dilution Factor: 1					
		Analysis Time..: 20:15					
Beryllium	101	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF12E
	99	(80 - 120)	2.1	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF12F
		Dilution Factor: 1					
		Analysis Time..: 15:28					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	81	(80 - 120)			SW846 6010A	06/26-06/30/98	CHVKF125
	80	(80 - 120)	1.2	(0-20)	SW846 6010A	06/26-06/30/98	CHVKF126
		Dilution Factor: 1					
		Analysis Time..: 20:15					
Cadmium	105	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF111
	99	(80 - 120)	5.5	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF112
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Calcium	106	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF113
	104	(80 - 120)	1.2	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF114
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Chromium	115	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF115
	113	(80 - 120)	1.2	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF116
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Cobalt	99	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF117
	97	(80 - 120)	1.7	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF118
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Copper	95	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF119
	86	(80 - 120)	6.0	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11A
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Iron	NC,MSB	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11C
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11D
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Magnesium	109	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11E
	107	(80 - 120)	0.93	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11F
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Manganese	NC,MSB	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11H
		Dilution Factor: 1					
		Analysis Time..: 15:28					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID
Date Sampled...: 06/08/98 **Date Received..:** 06/09/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	97	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11J
	94	(80 - 120)	2.2	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11K
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Potassium	113	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11L
	108	(80 - 120)	3.6	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11M
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Silver	85	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11N
	89	(80 - 120)	5.1	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11P
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Sodium	95	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11Q
	92	(80 - 120)	2.2	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11R
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Vanadium	112	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11T
	106	(80 - 120)	4.2	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11U
		Dilution Factor: 1					
		Analysis Time..: 15:28					
Zinc	96	(80 - 120)			SW846 6010A	06/26-06/29/98	CHVKF11V
	94	(80 - 120)	0.64	(0-20)	SW846 6010A	06/26-06/29/98	CHVKF11W
		Dilution Factor: 1					
		Analysis Time..: 15:28					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8F240000-123 **Prep Batch #...:** 8175123					
Mercury	102	(80 - 120)	SW846 7471A	06/24-06/25/98	CJ925102
		Dilution Factor: 1			
		Analysis Time..: 11:51			
LCS Lot-Sample#: H8F260000-108 **Prep Batch #...:** 8177108					
Cadmium	98	(80 - 113)	SW846 6010A	06/26-06/29/98	CJCJ510Q
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Calcium	97	(84 - 117)	SW846 6010A	06/26-06/29/98	CJCJ510R
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Chromium	94	(87 - 118)	SW846 6010A	06/26-06/29/98	CJCJ510T
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Cobalt	92	(87 - 110)	SW846 6010A	06/26-06/29/98	CJCJ510U
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Copper	89	(86 - 111)	SW846 6010A	06/26-06/29/98	CJCJ510V
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Iron	90	(87 - 120)	SW846 6010A	06/26-06/29/98	CJCJ510W
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Magnesium	94	(86 - 119)	SW846 6010A	06/26-06/29/98	CJCJ510X
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Thallium	86	(83 - 110)	SW846 6010A	06/26-06/30/98	CJCJ511A
		Dilution Factor: 1			
		Analysis Time..: 19:58			
Aluminum	91	(89 - 119)	SW846 6010A	06/26-06/29/98	CJCJ511C
		Dilution Factor: 1			
		Analysis Time..: 15:13			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	100	(86 - 119)	SW846 6010A	06/26-06/29/98	CJCJ511D
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Barium	89	(88 - 110)	SW846 6010A	06/26-06/29/98	CJCJ511E
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Beryllium	95	(80 - 118)	SW846 6010A	06/26-06/29/98	CJCJ511F
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Manganese	90	(89 - 112)	SW846 6010A	06/26-06/29/98	CJCJ5110
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Nickel	91	(88 - 115)	SW846 6010A	06/26-06/29/98	CJCJ5111
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Potassium	96	(83 - 113)	SW846 6010A	06/26-06/29/98	CJCJ5112
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Silver	89	(80 - 117)	SW846 6010A	06/26-06/29/98	CJCJ5113
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Sodium	96	(85 - 115)	SW846 6010A	06/26-06/29/98	CJCJ5114
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Vanadium	90	(89 - 113)	SW846 6010A	06/26-06/29/98	CJCJ5115
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Zinc	92	(89 - 118)	SW846 6010A	06/26-06/29/98	CJCJ5116
		Dilution Factor: 1			
		Analysis Time..: 15:13			
Arsenic	89	(83 - 110)	SW846 6010A	06/26-06/30/98	CJCJ5117
		Dilution Factor: 1			
		Analysis Time..: 19:58			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB028 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	91	(84 - 110)	SW846 6010A	06/26-06/30/98	CJCJ5118
		Dilution Factor: 1			
		Analysis Time..: 19:58			
Selenium	85	(80 - 110)	SW846 6010A	06/26-06/30/98	CJCJ5119
		Dilution Factor: 1			
		Analysis Time..: 19:58			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group
Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB028

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	TOTAL	EXP
				8260A	8270B	8081	6010A	8330
1	6/9/98	H8F090177	7280				X	X
2			7290	X	X	X	X	X
3			7400	X	X	X	X	X
4			7410				X	X
5			7420				X	X
6	6/10/98	H8F100187	7320	X	X	X	X	X
7			7330				X	X
8			7340				X	X
9	6/11/98	H8F110181	7440				X	X
10			7450	X	X	X	X	X
11			7460				X	X
12			7480	X	X	X	X	X
13			7490				X	X
14			7500				X	X
15			7560	X	X	X	X	X
16			7570				X	X
17			7580				X	X
18	6/15/98	H8F150116	7800				X	X
19			7810				X	X
20			7820	X	X	X	X	X
21								

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: SOIL
ANALYTICAL DUE: 7-2-98
REPORT DUE: 7-6-98
CLOSED?__YES__

7/7/98 9:50 AM

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F090177

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?			✓
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/9/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 20941			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			

PROJECT MANAGER : [signature] DATE: 6/9/98 (Per forse RFP)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T Kopp PROJECT: PBOW Lot No.: H8F050177

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		✓
c. Is preservative check (pH) noted on RFA/COC?			
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		✓
d. Has the correct fax due date been assigned to the lot?			
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/5/98

QA016R7.doc, 01/29/98

Quote# ~~20944~~ 23581 BPB

H8F090177

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060898QESK

Project Number: 773701

Samples Shipment Date: 08-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Tumaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624849987/801624849998

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ]

1. Relinquished By (Signature/Affiliation) [signature] IT — Date: 6-8-98 Time: 1800
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [ ] Archive (mos.)

1. Received By (Signature/Affiliation) [signature] — Date: 6/9/98 Time: 0930
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments:

Rec'd @ 2°c
w/custody seals
Intact BPB 6/9/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7280	PBOW-98-SO-PRRP-DP03-7280-(0001	08-JUN-98	15:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7280	PBOW-98-SO-PRRP-DP03-7280-(0001	08-JUN-98	15:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	
7290	PBOW-98-SO-PRRP-DP03-7290-(0405	08-JUN-98	15:15	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A ✓	N	001A	
7290	PBOW-98-SO-PRRP-DP03-7290-(0405	08-JUN-98	15:15	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil ✓	N	001A	
7290	PBOW-98-SO-PRRP-DP03-7290-(0405	08-JUN-98	15:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil ✓	N	001A	
7290	PBOW-98-SO-PRRP-DP03-7290-(0405	08-JUN-98	15:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil ✓	N	001A	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N	000B	

H8F090177

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060898QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000B	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N	001A	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N	000B	
7310	PBOW-98-GW-PRRP-DP03-7310	08-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N	000B	
7311		08-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N	001A	
7400	PBOW-98-SO-PRRP-DP06-7400-(0001	08-JUN-98	13:30	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N	001A	
7400	PBOW-98-SO-PRRP-DP06-7400-(0001	08-JUN-98	13:30	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N	001A	
7400	PBOW-98-SO-PRRP-DP06-7400-(0001	08-JUN-98	13:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7400	PBOW-98-SO-PRRP-DP06-7400-(0001	08-JUN-98	13:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	
7410	PBOW-98-SO-PRRP-DP06-7410-(0405	08-JUN-98	13:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7410	PBOW-98-SO-PRRP-DP06-7410-(0405	08-JUN-98	13:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	
7420	PBOW-98-SO-PRRP-DP06-7420-(0910	08-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	001A	
7420	PBOW-98-SO-PRRP-DP06-7420-(0910	08-JUN-98	13:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	001A	

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F100187

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?			✓
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/10/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23587			—
b. Informed Login associates of special instructions ?			
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/10/98 (per fax MFK)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKAX PROJECT: PBOW Lot No.: H8F10187

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/12/98

QA016R7.doc, 01/29/98

Quote #23581

H8F100187

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060998QESK

Project Number: 773701

Samples Shipment Date: 09-JUN-98

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850009/801624850010

Special Instructions:

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) David R. Dam Date: 6/9/98 Time: 1700

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Bryan Blomquist Date: 6/10/98 Time: 0900

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 2 1L Poly for Metals
1-Total 1-Dissolved (Filtered in Field) F on Cap

Rec'd @ 5°C
w/custody Seals
Intact BPB 6/10/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7320	PBOW-98-SO-PRRP-DP04-7320-(0001	09-JUN-98	13:30	2 INCH Tefslv	1	None except cool to 4 C	TCL Volatiles by SW-846 8260A ✓	N	000A	
7320	PBOW-98-SO-PRRP-DP04-7320-(0001	09-JUN-98	13:30	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081/TCL Semivolatiles by SW-846 8270B in soil ✓	N	000A	
7320	PBOW-98-SO-PRRP-DP04-7320-(0001	09-JUN-98	13:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil ✓	N	000A	
7320	PBOW-98-SO-PRRP-DP04-7320-(0001	09-JUN-98	13:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil ✓	N	000A	
7330	PBOW-98-SO-PRRP-DP04-7330-(0405	09-JUN-98	13:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	000A	
7330	PBOW-98-SO-PRRP-DP04-7330-(0405	09-JUN-98	13:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000A	
7340	PBOW-98-SO-PRRP-DP04-7340-(0910	09-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000A	
7340	PBOW-98-SO-PRRP-DP04-7340-(0910	09-JUN-98	13:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N	000A	

H8F100187

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-060998QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N	001A	
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N	000B	
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N	000B	
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N	000B	TOTAL PH 7 DISS PH<2
7350	PBOW-98-GW-PRRP-DP04-7350	09-JUN-98	15:05	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000B	
7430	PBOW-98-GW-PRRP-DP06-7430	09-JUN-98	14:45	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N	000B	1/2 AFTER RECEIVED
9026		09-JUN-98	14:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N	001A	

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: H8F110181

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: Thomas K Dawson DATE: 6-11-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			✓
b. Informed Login associates of special instructions ?			
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/11/98 (performed RFA)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T. Knox PROJECT: PBW Lot No.: H8F1018

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/2/98

QA016R7.doc, 01/29/98

Quote # 23581

H8F110181

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061098QESK

Project Number: 773701

Samples Shipment Date: 10-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850020

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown |X|

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/10/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client | | Disposal by Lab |X| Archive (mos.)

1. Received By (Signature/Affiliation) [signature] Date: 6-11-98 Time: 09:00

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Custody seals intact
received at 2°C
BKD 6-11-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7440	PBOW-98-SO-PRRP-DP07-7440-(0001	09-JUN-98	16:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7440	PBOW-98-SO-PRRP-DP07-7440-(0001	09-JUN-98	16:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7450	PBOW-98-SO-PRRP-DP07-7450-(0405	09-JUN-98	17:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7450	PBOW-98-SO-PRRP-DP07-7450-(0405	09-JUN-98	17:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7450	PBOW-98-SO-PRRP-DP07-7450-(0405	09-JUN-98	17:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081; TCL Semivolatiles by SW-846 8270B in soil	N		
7450	PBOW-98-SO-PRRP-DP07-7450-(0405	09-JUN-98	17:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7460	PBOW-98-SO-PRRP-DP07-7460-(0910	09-JUN-98	17:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7460	PBOW-98-SO-PRRP-DP07-7460-(0910	09-JUN-98	17:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F110181

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061098QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7470	PBOW-98-GW-PRRP-DP07-7470	10-JUN-98	08:15	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7470	PBOW-98-GW-PRRP-DP07-7470	10-JUN-98	08:15	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7470	PBOW-98-GW-PRRP-DP07-7470	10-JUN-98	08:15	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7470	PBOW-98-GW-PRRP-DP07-7470	10-JUN-98	08:15	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7480	PBOW-98-SO-PRRP-DP08-7480-(0001	10-JUN-98	09:40	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7480	PBOW-98-SO-PRRP-DP08-7480-(0001	10-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7480	PBOW-98-SO-PRRP-DP08-7480-(0001	10-JUN-98	09:40	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7480	PBOW-98-SO-PRRP-DP08-7480-(0001	10-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7490	PBOW-98-SO-PRRP-DP08-7490-(0405	10-JUN-98	09:50	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7490	PBOW-98-SO-PRRP-DP08-7490-(0405	10-JUN-98	09:50	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7500	PBOW-98-SO-PRRP-DP08-7500-(0910	10-JUN-98	10:00	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7500	PBOW-98-SO-PRRP-DP08-7500-(0910	10-JUN-98	10:00	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7510	PBOW-98-GW-PRRP-DP08-7510	10-JUN-98	14:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7510	PBOW-98-GW-PRRP-DP08-7510	10-JUN-98	14:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7510	PBOW-98-GW-PRRP-DP08-7510	10-JUN-98	14:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7510	PBOW-98-GW-PRRP-DP08-7510	10-JUN-98	14:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7560	PBOW-98-SO-PRRP-DP10-7560-(0001	10-JUN-98	13:25	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7560	PBOW-98-SO-PRRP-DP10-7560-(0001	10-JUN-98	13:25	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7560	PBOW-98-SO-PRRP-DP10-7560-(0001	10-JUN-98	13:25	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7560	PBOW-98-SO-PRRP-DP10-7560-(0001	10-JUN-98	13:25	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7570	PBOW-98-SO-PRRP-DP10-7570-(0405	10-JUN-98	13:35	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7570	PBOW-98-SO-PRRP-DP10-7570-(0405	10-JUN-98	13:35	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7580	PBOW-98-SO-PRRP-DP10-7580-(0910	10-JUN-98	13:45	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7580	PBOW-98-SO-PRRP-DP10-7580-(0910	10-JUN-98	13:45	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7590	PBOW-98-GW-PRRP-DP10-7590	10-JUN-98	14:15	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
9027		10-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: H8F150111

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6-15-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			—
Soils			
2. If custody seals were missing/not intact, was client notified?			—

PROJECT MANAGER : [signature] DATE: 6/15/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Actions

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T.KNX PROJECT: PBOW Lot No.: H8F150116

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?	✓		
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/16/2

QA016R7.doc, 01/29/98

H8F150116

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061398QESK

Project Number: 773701

Samples Shipment Date: 13-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Tumaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850053

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) — Date: 6/13/98 Time: 1330
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Received By (Signature/Affiliation) — Date: 6-15-98 Time: 09:45
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments:

Custody seals intact
received at 2°C
BKD 6-15-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7800	PBOW-98-SO-PRRP-DP16-7800-(0001	12-JUN-98	16:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7800	PBOW-98-SO-PRRP-DP16-7800-(0001	12-JUN-98	16:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7810	PBOW-98-SO-PRRP-DP16-7810-(0405	12-JUN-98	16:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7810	PBOW-98-SO-PRRP-DP16-7810-(0405	12-JUN-98	16:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7820	PBOW-98-SO-PRRP-DP16-7820-(0910	12-JUN-98	16:30	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7820	PBOW-98-SO-PRRP-DP16-7820-(0910	12-JUN-98	16:30	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7820	PBOW-98-SO-PRRP-DP16-7820-(0910	12-JUN-98	16:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7820	PBOW-98-SO-PRRP-DP16-7820-(0910	12-JUN-98	16:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

H8F150116

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061398QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7830	PBOW-98-GW-PRRP-DP16-7830	13-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7830	PBOW-98-GW-PRRP-DP16-7830	13-JUN-98	11:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7830	PBOW-98-GW-PRRP-DP16-7830	13-JUN-98	11:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7830	PBOW-98-GW-PRRP-DP16-7830	13-JUN-98	11:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7950	PBOW-98-GW-PRRP-DP19-7950	13-JUN-98	10:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7950	PBOW-98-GW-PRRP-DP19-7950	13-JUN-98	10:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7950	PBOW-98-GW-PRRP-DP19-7950	13-JUN-98	10:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7950	PBOW-98-GW-PRRP-DP19-7950	13-JUN-98	10:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
9031		13-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

Quanterra Environmental Services

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

ANALYTICAL REPORT

PROJECT NO. 773701

PBOW-Red Water Ponds
SDG #: PB029

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

July 16, 1998

Quanterra
Environmental Services

SAMPLE SUMMARY

PB029 : H8F120201

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ0TA	001	7200	06/11/98	12:40
CJ0TC	002	7201	06/11/98	12:40
CJ0TD	003	7650	06/11/98	08:40
CJ0TE	004	7840	06/10/98	16:55
CJ0TG	005	7880	06/11/98	14:30
CJ0TH	006	7881	06/11/98	14:30
CJ0TJ	007	7210	06/11/98	12:50
CJ0TL	008	7220	06/11/98	13:00
CJ0TM	009	7640	06/11/98	08:30
CJ0TN	010	7660	06/11/98	08:50
CJ0TP	011	7850	06/10/98	17:05
CJ0TQ	012	7860	06/10/98	17:15
CJ0TR	013	7890	06/11/98	14:30
CJ0TV	014	7900	06/11/98	14:30

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB029

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F120201-001		06/12/98	7200
H8F120201-001	D	06/12/98	7200
H8F120201-001	S	06/12/98	7200
H8F120201-002		06/12/98	7201
H8F120201-003		06/12/98	7650
H8F120201-004		06/12/98	7840
H8F120201-005		06/12/98	7880
H8F120201-005	D	06/12/98	7880
H8F120201-005	S	06/12/98	7880
H8F120201-006		06/12/98	7881
H8F120201-007		06/12/98	7210
H8F120201-008		06/12/98	7220
H8F120201-009		06/12/98	7640
H8F120201-010		06/12/98	7660
H8F120201-011		06/12/98	7850
H8F120201-012		06/12/98	7860
H8F120201-013		06/12/98	7890
H8F120201-014		06/12/98	7900

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

PB029

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides and PCBs	SW846 8081
Percent Moisture	MCAWW 160.3 MOD
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Volatiles

Internal standard recoveries for sample 7201 & 7650 were outside control limits. However, re-analyses of the samples resulted in similar results, indicating that a sample matrix effect is responsible for the internal standard criteria not being met. Both sets of data are reported.

Internal standard recoveries for sample 7200 were outside control limits. Since the associated matrix spike/matrix spike duplicate for this sample demonstrated similar internal standard recoveries, the results are attributed to sample matrix effects.

The matrix spike/matrix spike duplicate RPD results for sample 7880 were acceptable for all analytes except 1,1-dichloroethene. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results may be attributed to lack of sample homogeneity.

Explosives

Laboratory control sample CJ4D110 recovery was outside control limits for RDX. However, matrix spike/matrix spike duplicate recoveries for RDX were acceptable, indicating that the problem was confined to the laboratory control sample. Thus, the validity of the sample results is not adversely affected.

The matrix spike/matrix spike duplicate recoveries and RPDs of some compounds were outside control limits in samples 7200 and 7280. The laboratory control samples showed acceptable results indicating that the analyses were in control. The results are, therefore, attributed to matrix effects.

Surrogate recovery for sample 7880 was slightly outside control limits. However, as there were no compounds detected in the sample, the data are reported.

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PROJECT NARRATIVE

Metals

The matrix spike/matrix spike duplicate recoveries and RPDs for samples 7200 and 7880 were outside control limits for some analytes. However, the laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

COMMENTS:

Semivolatiles

Sample 7200 was reported with elevated reporting limits for all analytes due to the difficult sample matrix. A dilution was necessary prior to analysis, and the reporting limits were adjusted accordingly.

Explosives

Sample 7210 was reported with elevated reporting limits for 4-Amino-2,6-dinitrotoluene due to sample matrix interferences. The reporting limit has been adjusted accordingly.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7200

GC/MS Volatiles

Lot-Sample #...: H8F120201-001 **Work Order #...:** CJ0TA102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(64 - 135)
Toluene-d8	112	(77 - 124)
4-Bromofluorobenzene	114	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7200

GC/MS Volatiles

Lot-Sample #...: H8F120201-001 **Work Order #...:** CJ0TA102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

GC/MS Volatiles

Lot-Sample #...: H8F120201-002 **Work Order #...:** CJ0TC102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	113	(64 - 135)
Toluene-d8	121	(77 - 124)
4-Bromofluorobenzene	121	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

GC/MS Volatiles

Lot-Sample #...: H8F120201-002 **Work Order #...:** CJ0TC102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

GC/MS Volatiles

Lot-Sample #...: H8F120201-002 **Work Order #...:** CJ0TC202 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**2.5 J**	**6.2**	**ug/kg**
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(64 - 135)
Toluene-d8	122	(77 - 124)
4-Bromofluorobenzene	116	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

GC/MS Volatiles

Lot-Sample #...: H8F120201-002 **Work Order #...:** CJ0TC202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

GC/MS Volatiles

Lot-Sample #...: H8F120201-003 **Work Order #...:** CJ0TD102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(64 - 135)
Toluene-d8	110	(77 - 124)
4-Bromofluorobenzene	122	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

GC/MS Volatiles

Lot-Sample #...: H8F120201-003 **Work Order #...:** CJ0TD102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

GC/MS Volatiles

Lot-Sample #...: H8F120201-003 **Work Order #...:** CJ0TD202 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(64 - 135)
Toluene-d8	108	(77 - 124)
4-Bromofluorobenzene	115	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

GC/MS Volatiles

Lot-Sample #...: H8F120201-003 **Work Order #...:** CJ0TD202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7840

GC/MS Volatiles

Lot-Sample #...: H8F120201-004 **Work Order #...:** CJ0TE102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 9.7 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	ND	5.5	ug/kg
Acetone	ND	22	ug/kg
Carbon disulfide	ND	5.5	ug/kg
1,1-Dichloroethene	ND	5.5	ug/kg
1,1-Dichloroethane	ND	5.5	ug/kg
1,2-Dichloroethene (total)	ND	5.5	ug/kg
Chloroform	ND	5.5	ug/kg
1,2-Dichloroethane	ND	5.5	ug/kg
2-Butanone	ND	22	ug/kg
1,1,1-Trichloroethane	ND	5.5	ug/kg
Carbon tetrachloride	ND	5.5	ug/kg
Bromodichloromethane	ND	5.5	ug/kg
1,2-Dichloropropane	ND	5.5	ug/kg
cis-1,3-Dichloropropene	ND	5.5	ug/kg
Trichloroethene	ND	5.5	ug/kg
Dibromochloromethane	ND	5.5	ug/kg
1,1,2-Trichloroethane	ND	5.5	ug/kg
Benzene	ND	5.5	ug/kg
trans-1,3-Dichloropropene	ND	5.5	ug/kg
Bromoform	ND	5.5	ug/kg
4-Methyl-2-pentanone	ND	22	ug/kg
2-Hexanone	ND	22	ug/kg
Tetrachloroethene	ND	5.5	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
Toluene	ND	5.5	ug/kg
Chlorobenzene	ND	5.5	ug/kg
Ethylbenzene	ND	5.5	ug/kg
Styrene	ND	5.5	ug/kg
Xylenes (total)	ND	5.5	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(64 - 135)
Toluene-d8	97	(77 - 124)
4-Bromofluorobenzene	112	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7840

GC/MS Volatiles

Lot-Sample #...: H8F120201-004 **Work Order #...:** CJ0TE102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7880

GC/MS Volatiles

Lot-Sample #...: H8F120201-005 **Work Order #...:** CJ0TG102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	ND	5.7	ug/kg
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.7	ug/kg
1,1-Dichloroethene	ND	5.7	ug/kg
1,1-Dichloroethane	ND	5.7	ug/kg
1,2-Dichloroethene (total)	ND	5.7	ug/kg
Chloroform	ND	5.7	ug/kg
1,2-Dichloroethane	ND	5.7	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.7	ug/kg
Carbon tetrachloride	ND	5.7	ug/kg
Bromodichloromethane	ND	5.7	ug/kg
1,2-Dichloropropane	ND	5.7	ug/kg
cis-1,3-Dichloropropene	ND	5.7	ug/kg
Trichloroethene	ND	5.7	ug/kg
Dibromochloromethane	ND	5.7	ug/kg
1,1,2-Trichloroethane	ND	5.7	ug/kg
Benzene	ND	5.7	ug/kg
trans-1,3-Dichloropropene	ND	5.7	ug/kg
Bromoform	ND	5.7	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
Toluene	ND	5.7	ug/kg
Chlorobenzene	ND	5.7	ug/kg
Ethylbenzene	ND	5.7	ug/kg
Styrene	ND	5.7	ug/kg
Xylenes (total)	ND	5.7	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	104	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7880

GC/MS Volatiles

Lot-Sample #...: H8F120201-005 **Work Order #...:** CJ0TG102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7881

GC/MS Volatiles

Lot-Sample #...: H8F120201-006 **Work Order #...:** CJ0TH102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.0	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(64 - 135)
Toluene-d8	105	(77 - 124)
4-Bromofluorobenzene	119	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7881

GC/MS Volatiles

Lot-Sample #...: H8F120201-006 **Work Order #...:** CJ0TH102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB029 **Work Order #...:** CJ46N101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F180000-123

Prep Date.....: 06/18/98
Analysis Date..: 06/18/98 **Prep Batch #...:** 8169123
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB029 **Work Order #...:** CJ0TA103-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-001 CJ0TA104-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**105**	**(64 - 146)**			**SW846 8260A**
	102	**(64 - 146)**	**2.8**	**(0-18)**	**SW846 8260A**
Trichloroethene	**87**	**(41 - 151)**			**SW846 8260A**
	85	**(41 - 151)**	**2.1**	**(0-28)**	**SW846 8260A**
Benzene	**99**	**(74 - 122)**			**SW846 8260A**
	99	**(74 - 122)**	**0.29**	**(0-15)**	**SW846 8260A**
Toluene	**113**	**(69 - 132)**			**SW846 8260A**
	103	**(69 - 132)**	**8.7**	**(0-24)**	**SW846 8260A**
Chlorobenzene	**92**	**(67 - 121)**			**SW846 8260A**
	92	**(67 - 121)**	**0.21**	**(0-18)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	119	(64 - 135)
	118	(64 - 135)
Toluene-d8	123	(77 - 124)
	112	(77 - 124)
4-Bromofluorobenzene	128	(70 - 147)
	120	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB029 **Work Order #...:** CJ0TG103-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-005 CJ0TG104-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1 **% Moisture.....:** 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**115**	**(64 - 146)**			**SW846 8260A**
	91 p	**(64 - 146)**	**24**	**(0-18)**	**SW846 8260A**
Trichloroethene	**105**	**(41 - 151)**			**SW846 8260A**
	99	**(41 - 151)**	**6.1**	**(0-28)**	**SW846 8260A**
Benzene	**108**	**(74 - 122)**			**SW846 8260A**
	98	**(74 - 122)**	**9.4**	**(0-15)**	**SW846 8260A**
Toluene	**112**	**(69 - 132)**			**SW846 8260A**
	113	**(69 - 132)**	**0.32**	**(0-24)**	**SW846 8260A**
Chlorobenzene	**106**	**(67 - 121)**			**SW846 8260A**
	102	**(67 - 121)**	**3.9**	**(0-18)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(64 - 135)
	97	(64 - 135)
Toluene-d8	107	(77 - 124)
	112	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)
	109	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB029 **Work Order #...:** CJ46N102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F180000-123
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**95**	**(67 - 137)**	**SW846 8260A**
Benzene	**95**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**105**	**(68 - 126)**	**SW846 8260A**
Toluene	**101**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**99**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	98	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB029 **Work Order #...:** CJ5NQ101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F190000-213

Prep Date.....: 06/19/98
Analysis Date..: 06/19/98 **Prep Batch #...:** 8170213
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(64 - 135)
Toluene-d8	108	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB029 **Work Order #...:** CJ5NQ102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F190000-213
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**107**	**(67 - 137)**	**SW846 8260A**
Benzene	**102**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**110**	**(68 - 126)**	**SW846 8260A**
Toluene	**111**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**106**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	100	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7200

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-001 **Work Order #...:** CJ0TA105 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 10
% Moisture.....: 19 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	4100	ug/kg
bis(2-Chloroethyl) ether	ND	4100	ug/kg
2-Chlorophenol	ND	4100	ug/kg
1,3-Dichlorobenzene	ND	4100	ug/kg
1,4-Dichlorobenzene	ND	4100	ug/kg
1,2-Dichlorobenzene	ND	4100	ug/kg
2-Methylphenol	ND	4100	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	4100	ug/kg
4-Methylphenol	ND	4100	ug/kg
N-Nitrosodi-n-propylamine	ND	4100	ug/kg
Hexachloroethane	ND	4100	ug/kg
Nitrobenzene	ND	4100	ug/kg
Isophorone	ND	4100	ug/kg
2-Nitrophenol	ND	4100	ug/kg
2,4-Dimethylphenol	ND	4100	ug/kg
bis(2-Chloroethoxy) methane	ND	4100	ug/kg
2,4-Dichlorophenol	ND	4100	ug/kg
1,2,4-Trichlorobenzene	ND	4100	ug/kg
Naphthalene	ND	4100	ug/kg
4-Chloroaniline	ND	4100	ug/kg
Hexachlorobutadiene	ND	4100	ug/kg
4-Chloro-3-methylphenol	ND	4100	ug/kg
2-Methylnaphthalene	ND	4100	ug/kg
Hexachlorocyclopentadiene	ND	20000	ug/kg
2,4,6-Trichlorophenol	ND	4100	ug/kg
2,4,5-Trichlorophenol	ND	4100	ug/kg
2-Chloronaphthalene	ND	4100	ug/kg
2-Nitroaniline	ND	20000	ug/kg
Dimethyl phthalate	ND	4100	ug/kg
Acenaphthylene	ND	4100	ug/kg
2,6-Dinitrotoluene	ND	4100	ug/kg
3-Nitroaniline	ND	20000	ug/kg
Acenaphthene	ND	4100	ug/kg
2,4-Dinitrophenol	ND	20000	ug/kg
4-Nitrophenol	ND	20000	ug/kg
Dibenzofuran	ND	4100	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7200

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-001 **Work Order #...:** CJ0TA105 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	4100	ug/kg
Diethyl phthalate	ND	4100	ug/kg
4-Chlorophenyl phenyl ether	ND	4100	ug/kg
Fluorene	ND	4100	ug/kg
4-Nitroaniline	ND	20000	ug/kg
4,6-Dinitro-2-methylphenol	ND	20000	ug/kg
N-Nitrosodiphenylamine	ND	4100	ug/kg
4-Bromophenyl phenyl ether	ND	4100	ug/kg
Hexachlorobenzene	ND	4100	ug/kg
Pentachlorophenol	ND	20000	ug/kg
Phenanthrene	ND	4100	ug/kg
Anthracene	ND	4100	ug/kg
Carbazole	ND	4100	ug/kg
Di-n-butyl phthalate	ND	4100	ug/kg
Fluoranthene	ND	4100	ug/kg
Pyrene	ND	4100	ug/kg
Butyl benzyl phthalate	ND	4100	ug/kg
3,3'-Dichlorobenzidine	ND	20000	ug/kg
Benzo(a)anthracene	ND	4100	ug/kg
Chrysene	ND	4100	ug/kg
bis(2-Ethylhexyl) phthalate	ND	4100	ug/kg
Di-n-octyl phthalate	ND	4100	ug/kg
Benzo(b)fluoranthene	ND	4100	ug/kg
Benzo(k)fluoranthene	ND	4100	ug/kg
Benzo(a)pyrene	ND	4100	ug/kg
Indeno(1,2,3-cd)pyrene	ND	4100	ug/kg
Dibenz(a,h)anthracene	ND	4100	ug/kg
Benzo(ghi)perylene	ND	4100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(25 - 121)
Phenol-d5	63	(24 - 113)
Nitrobenzene-d5	54	(23 - 120)
2-Fluorobiphenyl	64	(30 - 115)
2,4,6-Tribromophenol	54	(19 - 122)
Terphenyl-d14	66	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-002 **Work Order #...:** CJ0TC103 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	ND	410	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-002 **Work Order #...:** CJ0TC103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	410	ug/kg
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	**47 J**	**410**	**ug/kg**
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	47	(25 - 121)
Phenol-d5	54	(24 - 113)
Nitrobenzene-d5	45	(23 - 120)
2-Fluorobiphenyl	46	(30 - 115)
2,4,6-Tribromophenol	49	(19 - 122)
Terphenyl-d14	56	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-003 **Work Order #...:** CJ0TD103 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	ND	410	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-003 **Work Order #...:** CJ0TD103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	410	ug/kg
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	43	(25 - 121)
Phenol-d5	49	(24 - 113)
Nitrobenzene-d5	39	(23 - 120)
2-Fluorobiphenyl	39	(30 - 115)
2,4,6-Tribromophenol	45	(19 - 122)
Terphenyl-d14	47	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7840

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-004 **Work Order #...:** CJ0TE103 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 9.7 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	370	ug/kg
bis(2-Chloroethyl) ether	ND	370	ug/kg
2-Chlorophenol	ND	370	ug/kg
1,3-Dichlorobenzene	ND	370	ug/kg
1,4-Dichlorobenzene	ND	370	ug/kg
1,2-Dichlorobenzene	ND	370	ug/kg
2-Methylphenol	ND	370	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	370	ug/kg
4-Methylphenol	ND	370	ug/kg
N-Nitrosodi-n-propylamine	ND	370	ug/kg
Hexachloroethane	ND	370	ug/kg
Nitrobenzene	ND	370	ug/kg
Isophorone	ND	370	ug/kg
2-Nitrophenol	ND	370	ug/kg
2,4-Dimethylphenol	ND	370	ug/kg
bis(2-Chloroethoxy) methane	ND	370	ug/kg
2,4-Dichlorophenol	ND	370	ug/kg
1,2,4-Trichlorobenzene	ND	370	ug/kg
Naphthalene	ND	370	ug/kg
4-Chloroaniline	ND	370	ug/kg
Hexachlorobutadiene	ND	370	ug/kg
4-Chloro-3-methylphenol	ND	370	ug/kg
2-Methylnaphthalene	ND	370	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	370	ug/kg
2,4,5-Trichlorophenol	ND	370	ug/kg
2-Chloronaphthalene	ND	370	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	370	ug/kg
Acenaphthylene	ND	370	ug/kg
2,6-Dinitrotoluene	ND	370	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	370	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	370	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7840

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-004 **Work Order #...:** CJ0TE103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	370	ug/kg
Diethyl phthalate	ND	370	ug/kg
4-Chlorophenyl phenyl ether	ND	370	ug/kg
Fluorene	ND	370	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	370	ug/kg
4-Bromophenyl phenyl ether	ND	370	ug/kg
Hexachlorobenzene	ND	370	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	370	ug/kg
Anthracene	ND	370	ug/kg
Carbazole	ND	370	ug/kg
Di-n-butyl phthalate	ND	370	ug/kg
Fluoranthene	ND	370	ug/kg
Pyrene	ND	370	ug/kg
Butyl benzyl phthalate	ND	370	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	370	ug/kg
Chrysene	ND	370	ug/kg
bis(2-Ethylhexyl) phthalate	ND	370	ug/kg
Di-n-octyl phthalate	ND	370	ug/kg
Benzo(b)fluoranthene	ND	370	ug/kg
Benzo(k)fluoranthene	ND	370	ug/kg
Benzo(a)pyrene	ND	370	ug/kg
Indeno(1,2,3-cd)pyrene	ND	370	ug/kg
Dibenz(a,h)anthracene	ND	370	ug/kg
Benzo(ghi)perylene	ND	370	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(25 - 121)
Phenol-d5	68	(24 - 113)
Nitrobenzene-d5	57	(23 - 120)
2-Fluorobiphenyl	55	(30 - 115)
2,4,6-Tribromophenol	54	(19 - 122)
Terphenyl-d14	63	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7880

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-005 **Work Order #...:** CJ0TG105 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	380	ug/kg
bis(2-Chloroethyl) ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichlorobenzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg
2,4,5-Trichlorophenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	ND	380	ug/kg
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	380	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7880

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-005 **Work Order #...:** CJ0TG105 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	380	ug/kg
Anthracene	ND	380	ug/kg
Carbazole	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	ND	380	ug/kg
Pyrene	ND	380	ug/kg
Butyl benzyl phthalate	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	380	ug/kg
Chrysene	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	ND	380	ug/kg
Benzo(k)fluoranthene	ND	380	ug/kg
Benzo(a)pyrene	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg
Dibenz(a,h)anthracene	ND	380	ug/kg
Benzo(ghi)perylene	ND	380	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	42	(25 - 121)
Phenol-d5	49	(24 - 113)
Nitrobenzene-d5	39	(23 - 120)
2-Fluorobiphenyl	37	(30 - 115)
2,4,6-Tribromophenol	49	(19 - 122)
Terphenyl-d14	50	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7881

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-006 **Work Order #...:** CJ0TH103 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	400	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7881

GC/MS Semivolatiles

Lot-Sample #...: H8F120201-006 **Work Order #...:** CJ0TH103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	400	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	**47 J**	**400**	**ug/kg**
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	ND	400	ug/kg
Benzo(k)fluoranthene	ND	400	ug/kg
Benzo(a)pyrene	ND	400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	ND	400	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	45	(25 - 121)
Phenol-d5	50	(24 - 113)
Nitrobenzene-d5	41	(23 - 120)
2-Fluorobiphenyl	40	(30 - 115)
2,4,6-Tribromophenol	53	(19 - 122)
Terphenyl-d14	55	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB029 **Work Order #...:** CJ36K101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F170000-131

Prep Date.....: 06/17/98
Analysis Date..: 07/08/98 **Prep Batch #...:** 8168131
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB029 **Work Order #...:** CJ36K101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(25 - 121)
Phenol-d5	74	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
2-Fluorobiphenyl	63	(30 - 115)
2,4,6-Tribromophenol	51	(19 - 122)
Terphenyl-d14	68	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB029 **Work Order #...:** CJ0TA106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-001 CJ0TA107-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 10 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**62**	**(23 - 115)**			**SW846 8270B**
	68	**(23 - 115)**	**8.0**	**(0-41)**	**SW846 8270B**
2-Chlorophenol	**60**	**(20 - 118)**			**SW846 8270B**
	64	**(20 - 118)**	**5.2**	**(0-42)**	**SW846 8270B**
1,4-Dichlorobenzene	**54**	**(16 - 116)**			**SW846 8270B**
	58	**(16 - 116)**	**6.8**	**(0-43)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**58**	**(12 - 126)**			**SW846 8270B**
	64	**(12 - 126)**	**11**	**(0-42)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**56**	**(19 - 124)**			**SW846 8270B**
	60	**(19 - 124)**	**7.5**	**(0-46)**	**SW846 8270B**
4-Chloro-3-methylphenol	**59**	**(28 - 119)**			**SW846 8270B**
	62	**(28 - 119)**	**4.0**	**(0-35)**	**SW846 8270B**
Acenaphthene	**57**	**(23 - 125)**			**SW846 8270B**
	62	**(23 - 125)**	**7.4**	**(0-40)**	**SW846 8270B**
4-Nitrophenol	**35**	**(15 - 130)**			**SW846 8270B**
	39	**(15 - 130)**	**10**	**(0-54)**	**SW846 8270B**
2,4-Dinitrotoluene	**55**	**(26 - 122)**			**SW846 8270B**
	60	**(26 - 122)**	**8.4**	**(0-32)**	**SW846 8270B**
Pentachlorophenol	**43**	**(10 - 134)**			**SW846 8270B**
	46	**(10 - 134)**	**6.3**	**(0-53)**	**SW846 8270B**
Pyrene	**71**	**(28 - 128)**			**SW846 8270B**
	72	**(28 - 128)**	**1.7**	**(0-42)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	50	(25 - 121)
	55	(25 - 121)
Phenol-d5	57	(24 - 113)
	62	(24 - 113)
Nitrobenzene-d5	50	(23 - 120)
	55	(23 - 120)
2-Fluorobiphenyl	51	(30 - 115)
	55	(30 - 115)
2,4,6-Tribromophenol	47	(19 - 122)
	50	(19 - 122)
Terphenyl-d14	60	(20 - 138)
	63	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB029 **Work Order #...:** CJ0TG106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-005 CJ0TG107-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1 **% Moisture.....:** 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**67**	**(23 - 115)**			**SW846 8270B**
	76	**(23 - 115)**	**13**	**(0-41)**	**SW846 8270B**
2-Chlorophenol	**64**	**(20 - 118)**			**SW846 8270B**
	72	**(20 - 118)**	**12**	**(0-42)**	**SW846 8270B**
1,4-Dichlorobenzene	**52**	**(16 - 116)**			**SW846 8270B**
	58	**(16 - 116)**	**10**	**(0-43)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**60**	**(12 - 126)**			**SW846 8270B**
	71	**(12 - 126)**	**16**	**(0-42)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**54**	**(19 - 124)**			**SW846 8270B**
	60	**(19 - 124)**	**12**	**(0-46)**	**SW846 8270B**
4-Chloro-3-methylphenol	**63**	**(28 - 119)**			**SW846 8270B**
	74	**(28 - 119)**	**16**	**(0-35)**	**SW846 8270B**
Acenaphthene	**56**	**(23 - 125)**			**SW846 8270B**
	65	**(23 - 125)**	**15**	**(0-40)**	**SW846 8270B**
4-Nitrophenol	**60**	**(15 - 130)**			**SW846 8270B**
	73	**(15 - 130)**	**19**	**(0-54)**	**SW846 8270B**
2,4-Dinitrotoluene	**63**	**(26 - 122)**			**SW846 8270B**
	73	**(26 - 122)**	**15**	**(0-32)**	**SW846 8270B**
Pentachlorophenol	**59**	**(10 - 134)**			**SW846 8270B**
	71	**(10 - 134)**	**18**	**(0-53)**	**SW846 8270B**
Pyrene	**63**	**(28 - 128)**			**SW846 8270B**
	74	**(28 - 128)**	**17**	**(0-42)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
	63	(25 - 121)
Phenol-d5	63	(24 - 113)
	72	(24 - 113)
Nitrobenzene-d5	52	(23 - 120)
	58	(23 - 120)
2-Fluorobiphenyl	50	(30 - 115)
	57	(30 - 115)
2,4,6-Tribromophenol	54	(19 - 122)
	63	(19 - 122)
Terphenyl-d14	55	(20 - 138)
	64	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB029 **Work Order #...:** CJ36K102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F170000-131
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**67**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**65**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**66**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**57**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**77**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**65**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**68**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**57**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**80**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**77**	**(17 - 117)**	**SW846 8270B**
Pyrene	**74**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
Phenol-d5	67	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
2-Fluorobiphenyl	68	(30 - 115)
2,4,6-Tribromophenol	47	(19 - 122)
Terphenyl-d14	73	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7200

GC Semivolatiles

Lot-Sample #...: H8F120201-001 Work Order #...: CJ0TA108 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
Prep Date.....: 06/17/98 Analysis Date..: 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 19 Method.....: SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	123	(40 - 134)
Decachlorobiphenyl	128	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

GC Semivolatiles

Lot-Sample #...:	H8F120201-002	**Work Order #...:**	CJ0TC104	**Matrix.....:**	SOLID
Date Sampled...:	06/11/98	**Date Received..:**	06/12/98		
Prep Date.....:	06/17/98	**Analysis Date..:**	07/07/98		
Prep Batch #...:	8168122				
Dilution Factor:	1				
% Moisture.....:	19	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	68	(40 - 134)
Decachlorobiphenyl	74	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

GC Semivolatiles

Lot-Sample #...: H8F120201-003 **Work Order #...:** CJ0TD104 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(40 - 134)
Decachlorobiphenyl	107	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7840

GC Semivolatiles

Lot-Sample #...: H8F120201-004 **Work Order #...:** CJ0TE104 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 9.7 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	37	ug/kg
Aroclor 1221	ND	37	ug/kg
Aroclor 1232	ND	37	ug/kg
Aroclor 1242	ND	37	ug/kg
Aroclor 1248	ND	37	ug/kg
Aroclor 1254	ND	37	ug/kg
Aroclor 1260	ND	37	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(40 - 134)
Decachlorobiphenyl	83	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7880

GC Semivolatiles

Lot-Sample #...: H8F120201-005 **Work Order #...:** CJ0TG108 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	ND	38	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115	(40 - 134)
Decachlorobiphenyl	124	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7881

GC Semivolatiles

Lot-Sample #...:	H8F120201-006	**Work Order #...:**	CJ0TH104	**Matrix.....:**	SOLID
Date Sampled...:	06/11/98	**Date Received..:**	06/12/98		
Prep Date.....:	06/17/98	**Analysis Date..:**	07/08/98		
Prep Batch #...:	8168122				
Dilution Factor:	1				
% Moisture.....:	17	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(40 - 134)
Decachlorobiphenyl	49	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB029 **Work Order #...:** CJ367101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F170000-122

Prep Date.....: 06/17/98
Analysis Date..: 07/07/98 **Prep Batch #...:** 8168122
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(40 - 134)
Decachlorobiphenyl	76	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB029 **Work Order #...:** CJ0TA109-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-001 CJ0TA10A-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**99**	**(52 - 144)**			**SW846 8081**
	100	**(52 - 144)**	**0.63**	**(0-25)**	**SW846 8081**
Aroclor 1260	**94**	**(45 - 143)**			**SW846 8081**
	94	**(45 - 143)**	**0.18**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(40 - 134)
	84	(40 - 134)
Decachlorobiphenyl	87	(38 - 174)
	91	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB029 **Work Order #...:** CJ367102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F170000-122
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**92**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**83**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(40 - 134)
Decachlorobiphenyl	85	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7200

HPLC

Lot-Sample #...: H8F120201-001 **Work Order #...:** CJ0TA10C **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

HPLC

Lot-Sample #...: H8F120201-002 **Work Order #...:** CJ0TC105 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**0.28**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**0.34**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	110	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

HPLC

Lot-Sample #...: H8F120201-003 **Work Order #...:** CJ0TD105 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7840

HPLC

Lot-Sample #...: H8F120201-004 **Work Order #...:** CJ0TE105 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 9.7 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	99	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7880

HPLC

Lot-Sample #...: H8F120201-005 **Work Order #...:** CJ0TG10C **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	130 *	(72 - 129)

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7881

HPLC

Lot-Sample #...: H8F120201-006 **Work Order #...:** CJ0TH105 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	128	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7210

HPLC

Lot-Sample #...:	H8F120201-007	**Work Order #...:**	CJ0TJ102	**Matrix.....:**	SOLID
Date Sampled...:	06/11/98	**Date Received..:**	06/12/98		
Prep Date.....:	06/18/98	**Analysis Date..:**	06/25/98		
Prep Batch #...:	8169167				
Dilution Factor:	1				
% Moisture.....:	20	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND G	0.39	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**0.96**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	**0.35**	**0.25**	**mg/kg**
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**0.56**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	103	(72 - 129)

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7220

HPLC

Lot-Sample #...: H8F120201-008 **Work Order #...:** CJ0TL102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**0.29**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**2.7**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	123	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7640

HPLC

Lot-Sample #...: H8F120201-009 **Work Order #...:** CJ0TM102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	113	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7660

HPLC

Lot-Sample #...: H8F120201-010 **Work Order #...:** CJ0TN102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	118	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7850

HPLC

Lot-Sample #...: H8F120201-011 **Work Order #...:** CJ0TP102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7860

HPLC

Lot-Sample #...: H8F120201-012 **Work Order #...:** CJ0TQ102 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	91	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7890

HPLC

Lot-Sample #...: H8F120201-013 **Work Order #...:** CJ0TR102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 22 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	93	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7900

HPLC

Lot-Sample #...: H8F120201-014 **Work Order #...:** CJ0TV102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(72 - 129)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB029 **Work Order #...:** CJ4D1101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F180000-167

Prep Date.....: 06/18/98
Analysis Date..: 06/25/98 **Prep Batch #...:** 8169167
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB029 **Work Order #...:** CJ0TA10D-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-001 CJ0TA10E-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	**96**	**(76 - 120)**			**SW846 8330**
	118 p	**(76 - 120)**	**21**	**(0-15)**	**SW846 8330**
4-Nitrotoluene	**107**	**(76 - 122)**			**SW846 8330**
	129 a	**(76 - 122)**	**18**	**(0-25)**	**SW846 8330**
HMX	**94**	**(48 - 125)**			**SW846 8330**
	117 p	**(48 - 125)**	**22**	**(0-15)**	**SW846 8330**
RDX	**76**	**(61 - 127)**			**SW846 8330**
	98 p	**(61 - 127)**	**26**	**(0-15)**	**SW846 8330**
1,3,5-Trinitrobenzene	**108**	**(74 - 126)**			**SW846 8330**
	132 a,p	**(74 - 126)**	**19**	**(0-15)**	**SW846 8330**
1,3-Dinitrobenzene	**98**	**(71 - 126)**			**SW846 8330**
	119 p	**(71 - 126)**	**19**	**(0-15)**	**SW846 8330**
Tetryl	**93**	**(32 - 143)**			**SW846 8330**
	109	**(32 - 143)**	**16**	**(0-26)**	**SW846 8330**
Nitrobenzene	**98**	**(76 - 122)**			**SW846 8330**
	118 p	**(76 - 122)**	**19**	**(0-15)**	**SW846 8330**
2,4,6-Trinitrotoluene	**99**	**(69 - 132)**			**SW846 8330**
	119 p	**(69 - 132)**	**19**	**(0-15)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**101**	**(67 - 127)**			**SW846 8330**
	121 p	**(67 - 127)**	**19**	**(0-15)**	**SW846 8330**
2,6-Dinitrotoluene	**106**	**(75 - 122)**			**SW846 8330**
	130 a,p	**(75 - 122)**	**20**	**(0-15)**	**SW846 8330**
2,4-Dinitrotoluene	**104**	**(75 - 124)**			**SW846 8330**
	127 a,p	**(75 - 124)**	**20**	**(0-15)**	**SW846 8330**
2-Nitrotoluene	**106**	**(77 - 125)**			**SW846 8330**
	127 a,p	**(77 - 125)**	**18**	**(0-15)**	**SW846 8330**
3-Nitrotoluene	**108**	**(76 - 121)**			**SW846 8330**
	129 a,p	**(76 - 121)**	**18**	**(0-15)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	116	(72 - 129)
	134 *	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB029 **Work Order #...:** CJ4D1102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F180000-167
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169167
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**81**	**(65 - 117)**	**SW846 8330**
RDX	**66 a**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**93**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**85**	**(75 - 123)**	**SW846 8330**
Tetryl	**71**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**87**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**91**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**92**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**95**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**92**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**96**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**98**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**84**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**97**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

HPLC

Client Lot #...: PB029 **Work Order #...:** CJ4E5101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F180000-175

Prep Date.....: 06/18/98
Analysis Date..: 06/25/98 **Prep Batch #...:** 8169175
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB029 Work Order #...: CJ0TG10D-MS Matrix.....: SOLID
MS Lot-Sample #: H8F120201-005 CJ0TG10E-MSD
Date Sampled...: 06/11/98 Date Received..: 06/12/98
Prep Date.....: 06/18/98 Analysis Date..: 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1 % Moisture.....: 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	91	(76 - 120)			SW846 8330
	80	(76 - 120)	13	(0-15)	SW846 8330
4-Nitrotoluene	99	(76 - 122)			SW846 8330
	86	(76 - 122)	13	(0-25)	SW846 8330
HMX	93	(48 - 125)			SW846 8330
	79 p	(48 - 125)	16	(0-15)	SW846 8330
RDX	78	(61 - 127)			SW846 8330
	67	(61 - 127)	15	(0-15)	SW846 8330
1,3,5-Trinitrobenzene	101	(74 - 126)			SW846 8330
	89	(74 - 126)	13	(0-15)	SW846 8330
1,3-Dinitrobenzene	93	(71 - 126)			SW846 8330
	82	(71 - 126)	13	(0-15)	SW846 8330
Tetryl	84	(32 - 143)			SW846 8330
	76	(32 - 143)	11	(0-26)	SW846 8330
Nitrobenzene	93	(76 - 122)			SW846 8330
	81	(76 - 122)	13	(0-15)	SW846 8330
2,4,6-Trinitrotoluene	90	(69 - 132)			SW846 8330
	79	(69 - 132)	13	(0-15)	SW846 8330
4-Amino-2,6-dinitrotoluen	95	(67 - 127)			SW846 8330
	84	(67 - 127)	12	(0-15)	SW846 8330
2,6-Dinitrotoluene	97	(75 - 122)			SW846 8330
	85	(75 - 122)	13	(0-15)	SW846 8330
2,4-Dinitrotoluene	96	(75 - 124)			SW846 8330
	84	(75 - 124)	13	(0-15)	SW846 8330
2-Nitrotoluene	98	(77 - 125)			SW846 8330
	86	(77 - 125)	13	(0-15)	SW846 8330
3-Nitrotoluene	99	(76 - 121)			SW846 8330
	87	(76 - 121)	13	(0-15)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(72 - 129)
	93	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB029 **Work Order #...:** CJ4E5102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F180000-175
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**106**	**(65 - 117)**	**SW846 8330**
RDX	**105**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**116**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**107**	**(75 - 123)**	**SW846 8330**
Tetryl	**93**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**104**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**99**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**109**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**108**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**107**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**107**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**108**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**107**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**108**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	120	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7200

TOTAL Metals

Lot-Sample #...: H8F120201-001 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TA12M
		Dilution Factor: 1		Analysis Time..: 13:06		
Prep Batch #...: 8181149						
Aluminum	9370	24.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA10F
		Dilution Factor: 1		Analysis Time..: 12:19		
Arsenic	4.5	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TA128
		Dilution Factor: 1		Analysis Time..: 19:44		
Lead	8.6	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TA12C
		Dilution Factor: 1		Analysis Time..: 19:44		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA10J
		Dilution Factor: 1		Analysis Time..: 12:19		
Barium	84.3	24.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA10M
		Dilution Factor: 1		Analysis Time..: 12:19		
Selenium	0.84	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TA12F
		Dilution Factor: 1		Analysis Time..: 19:44		
Beryllium	0.69	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA10Q
		Dilution Factor: 1		Analysis Time..: 12:19		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TA12J
		Dilution Factor: 1		Analysis Time..: 19:44		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA10U
		Dilution Factor: 1		Analysis Time..: 12:19		
Calcium	5740	617	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA10X
		Dilution Factor: 1		Analysis Time..: 12:19		
Chromium	14.7	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA112
		Dilution Factor: 1		Analysis Time..: 12:19		
Cobalt	11.1	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA115
		Dilution Factor: 1		Analysis Time..: 12:19		
Copper	22.6	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA118
		Dilution Factor: 1		Analysis Time..: 12:19		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7200

TOTAL Metals

Lot-Sample #...: H8F120201-001 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18000	12.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA11C
		Dilution Factor: 1		Analysis Time..: 12:19		
Magnesium	2480	617	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA11F
		Dilution Factor: 1		Analysis Time..: 12:19		
Manganese	321	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA11J
		Dilution Factor: 1		Analysis Time..: 12:19		
Nickel	27.2	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA11M
		Dilution Factor: 1		Analysis Time..: 12:19		
Potassium	777	617	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA11Q
		Dilution Factor: 1		Analysis Time..: 12:19		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA11U
		Dilution Factor: 1		Analysis Time..: 12:19		
Sodium	1240	617	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA11X
		Dilution Factor: 1		Analysis Time..: 12:19		
Vanadium	19.1	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA122
		Dilution Factor: 1		Analysis Time..: 12:19		
Zinc	78.5	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TA125
		Dilution Factor: 1		Analysis Time..: 12:19		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

TOTAL Metals

Lot-Sample #...: H8F120201-002 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TC10W
		Dilution Factor: 1		Analysis Time..: 13:14		
Prep Batch #...: 8181149						
Aluminum	10100	24.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC106
		Dilution Factor: 1		Analysis Time..: 12:49		
Arsenic	6.3	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TC10R
		Dilution Factor: 1		Analysis Time..: 20:06		
Lead	9.0	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TC10T
		Dilution Factor: 1		Analysis Time..: 20:06		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC107
		Dilution Factor: 1		Analysis Time..: 12:49		
Barium	80.1	24.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC108
		Dilution Factor: 1		Analysis Time..: 12:49		
Selenium	0.68	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TC10U
		Dilution Factor: 1		Analysis Time..: 20:06		
Beryllium	0.73	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC109
		Dilution Factor: 1		Analysis Time..: 12:49		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TC10V
		Dilution Factor: 1		Analysis Time..: 20:06		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10A
		Dilution Factor: 1		Analysis Time..: 12:49		
Calcium	5080	615	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10C
		Dilution Factor: 1		Analysis Time..: 12:49		
Chromium	16.1	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10D
		Dilution Factor: 1		Analysis Time..: 12:49		
Cobalt	10.4	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10E
		Dilution Factor: 1		Analysis Time..: 12:49		
Copper	24.0	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10F
		Dilution Factor: 1		Analysis Time..: 12:49		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7201

TOTAL Metals

Lot-Sample #...: H8F120201-002 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	21400	12.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10G
		Dilution Factor: 1		Analysis Time..: 12:49		
Magnesium	2620	615	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10H
		Dilution Factor: 1		Analysis Time..: 12:49		
Manganese	275	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10J
		Dilution Factor: 1		Analysis Time..: 12:49		
Nickel	32.7	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10K
		Dilution Factor: 1		Analysis Time..: 12:49		
Potassium	1060	615	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10L
		Dilution Factor: 1		Analysis Time..: 12:49		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10M
		Dilution Factor: 1		Analysis Time..: 12:49		
Sodium	985	615	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10N
		Dilution Factor: 1		Analysis Time..: 12:49		
Vanadium	22.0	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10P
		Dilution Factor: 1		Analysis Time..: 12:49		
Zinc	78.6	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TC10Q
		Dilution Factor: 1		Analysis Time..: 12:49		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

TOTAL Metals

Lot-Sample #...: H8F120201-003 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TD10W
		Dilution Factor: 1		Analysis Time..: 13:16		
Prep Batch #...: 8181149						
Aluminum	**12000**	**25.0**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TD106**
		Dilution Factor: 1		Analysis Time..: 12:54		
Arsenic	**5.7**	**1.2**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ0TD10R**
		Dilution Factor: 1		Analysis Time..: 20:11		
Lead	**10.7**	**0.37**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ0TD10T**
		Dilution Factor: 1		Analysis Time..: 20:11		
Antimony	ND	7.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD107
		Dilution Factor: 1		Analysis Time..: 12:54		
Barium	**60.3**	**25.0**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TD108**
		Dilution Factor: 1		Analysis Time..: 12:54		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TD10U
		Dilution Factor: 1		Analysis Time..: 20:11		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD109
		Dilution Factor: 1		Analysis Time..: 12:54		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TD10V
		Dilution Factor: 1		Analysis Time..: 20:11		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10A
		Dilution Factor: 1		Analysis Time..: 12:54		
Calcium	**37100**	**624**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TD10C**
		Dilution Factor: 1		Analysis Time..: 12:54		
Chromium	**19.7**	**1.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TD10D**
		Dilution Factor: 1		Analysis Time..: 12:54		
Cobalt	**10.8**	**6.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TD10E**
		Dilution Factor: 1		Analysis Time..: 12:54		
Copper	**26.7**	**3.1**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TD10F**
		Dilution Factor: 1		Analysis Time..: 12:54		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7650

TOTAL Metals

Lot-Sample #...: H8F120201-003 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	22300	12.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10G
		Dilution Factor: 1		Analysis Time..: 12:54		
Magnesium	16600	624	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10H
		Dilution Factor: 1		Analysis Time..: 12:54		
Manganese	306	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10J
		Dilution Factor: 1		Analysis Time..: 12:54		
Nickel	31.6	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10K
		Dilution Factor: 1		Analysis Time..: 12:54		
Potassium	2430	624	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10L
		Dilution Factor: 1		Analysis Time..: 12:54		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10M
		Dilution Factor: 1		Analysis Time..: 12:54		
Sodium	ND	624	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10N
		Dilution Factor: 1		Analysis Time..: 12:54		
Vanadium	26.8	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10P
		Dilution Factor: 1		Analysis Time..: 12:54		
Zinc	71.9	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TD10Q
		Dilution Factor: 1		Analysis Time..: 12:54		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7840

TOTAL Metals

Lot-Sample #...: H8F120201-004 Matrix.....: SOLID
Date Sampled...: 06/10/98 Date Received..: 06/12/98
% Moisture.....: 9.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.037	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TE10W
		Dilution Factor: 1		Analysis Time..: 13:19		
Prep Batch #...: 8181149						
Aluminum	**7140**	**22.1**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TE106**
		Dilution Factor: 1		Analysis Time..: 12:59		
Arsenic	**2.3**	**1.1**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ0TE10R**
		Dilution Factor: 1		Analysis Time..: 20:17		
Lead	**3.3**	**0.33**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ0TE10T**
		Dilution Factor: 1		Analysis Time..: 20:17		
Antimony	ND	6.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE107
		Dilution Factor: 1		Analysis Time..: 12:59		
Barium	ND	22.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE108
		Dilution Factor: 1		Analysis Time..: 12:59		
Selenium	ND	0.55	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TE10U
		Dilution Factor: 1		Analysis Time..: 20:17		
Beryllium	ND	0.55	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE109
		Dilution Factor: 1		Analysis Time..: 12:59		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TE10V
		Dilution Factor: 1		Analysis Time..: 20:17		
Cadmium	ND	0.55	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10A
		Dilution Factor: 1		Analysis Time..: 12:59		
Calcium	**817**	**554**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TE10C**
		Dilution Factor: 1		Analysis Time..: 12:59		
Chromium	**10.8**	**1.1**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TE10D**
		Dilution Factor: 1		Analysis Time..: 12:59		
Cobalt	ND	5.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10E
		Dilution Factor: 1		Analysis Time..: 12:59		
Copper	**3.8**	**2.8**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ0TE10F**
		Dilution Factor: 1		Analysis Time..: 12:59		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7840

TOTAL Metals

Lot-Sample #...: H8F120201-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	13100	11.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10G
		Dilution Factor: 1		Analysis Time..: 12:59		
Magnesium	791	554	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10H
		Dilution Factor: 1		Analysis Time..: 12:59		
Manganese	104	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10J
		Dilution Factor: 1		Analysis Time..: 12:59		
Nickel	6.4	4.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10K
		Dilution Factor: 1		Analysis Time..: 12:59		
Potassium	ND	554	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10L
		Dilution Factor: 1		Analysis Time..: 12:59		
Silver	ND	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10M
		Dilution Factor: 1		Analysis Time..: 12:59		
Sodium	ND	554	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10N
		Dilution Factor: 1		Analysis Time..: 12:59		
Vanadium	23.4	5.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10P
		Dilution Factor: 1		Analysis Time..: 12:59		
Zinc	21.3	2.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TE10Q
		Dilution Factor: 1		Analysis Time..: 12:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7880

TOTAL Metals

Lot-Sample #...: H8F120201-005 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TG12M
		Dilution Factor: 1		Analysis Time..: 13:26		
Prep Batch #...: 8181149						
Aluminum	10700	23.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG10F
		Dilution Factor: 1		Analysis Time..: 13:04		
Arsenic	4.0	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TG128
		Dilution Factor: 1		Analysis Time..: 20:22		
Lead	5.6	0.34	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TG12C
		Dilution Factor: 1		Analysis Time..: 20:22		
Antimony	ND	6.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG10J
		Dilution Factor: 1		Analysis Time..: 13:04		
Barium	32.3	23.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG10M
		Dilution Factor: 1		Analysis Time..: 13:04		
Selenium	ND	0.57	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TG12F
		Dilution Factor: 1		Analysis Time..: 20:22		
Beryllium	ND	0.57	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG10Q
		Dilution Factor: 1		Analysis Time..: 13:04		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TG12J
		Dilution Factor: 1		Analysis Time..: 20:22		
Cadmium	ND	0.57	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG10U
		Dilution Factor: 1		Analysis Time..: 13:04		
Calcium	1040	574	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG10X
		Dilution Factor: 1		Analysis Time..: 13:04		
Chromium	14.6	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG112
		Dilution Factor: 1		Analysis Time..: 13:04		
Cobalt	6.2	5.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG115
		Dilution Factor: 1		Analysis Time..: 13:04		
Copper	7.5	2.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG118
		Dilution Factor: 1		Analysis Time..: 13:04		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7880

TOTAL Metals

Lot-Sample #...: H8F120201-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	17800	11.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG11C
		Dilution Factor: 1		Analysis Time..: 13:04		
Magnesium	1120	574	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG11F
		Dilution Factor: 1		Analysis Time..: 13:04		
Manganese	158	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG11J
		Dilution Factor: 1		Analysis Time..: 13:04		
Nickel	9.8	4.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG11M
		Dilution Factor: 1		Analysis Time..: 13:04		
Potassium	ND	574	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG11Q
		Dilution Factor: 1		Analysis Time..: 13:04		
Silver	ND	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG11U
		Dilution Factor: 1		Analysis Time..: 13:04		
Sodium	ND	574	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG11X
		Dilution Factor: 1		Analysis Time..: 13:04		
Vanadium	30.3	5.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG122
		Dilution Factor: 1		Analysis Time..: 13:04		
Zinc	27.9	2.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TG125
		Dilution Factor: 1		Analysis Time..: 13:04		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7881

TOTAL Metals

Lot-Sample #...: H8F120201-006 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TH10W
		Dilution Factor: 1		Analysis Time..: 13:33		
Prep Batch #...: 8181149						
Aluminum	8940	24.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH106
		Dilution Factor: 1		Analysis Time..: 13:23		
Arsenic	7.3	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TH10R
		Dilution Factor: 1		Analysis Time..: 20:56		
Lead	6.1	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TH10T
		Dilution Factor: 1		Analysis Time..: 20:56		
Antimony	ND	7.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH107
		Dilution Factor: 1		Analysis Time..: 13:23		
Barium	41.0	24.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH108
		Dilution Factor: 1		Analysis Time..: 13:23		
Selenium	ND	0.60	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TH10U
		Dilution Factor: 1		Analysis Time..: 20:56		
Beryllium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH109
		Dilution Factor: 1		Analysis Time..: 13:23		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TH10V
		Dilution Factor: 1		Analysis Time..: 20:56		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10A
		Dilution Factor: 1		Analysis Time..: 13:23		
Calcium	2360	602	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10C
		Dilution Factor: 1		Analysis Time..: 13:23		
Chromium	15.8	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10D
		Dilution Factor: 1		Analysis Time..: 13:23		
Cobalt	7.3	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10E
		Dilution Factor: 1		Analysis Time..: 13:23		
Copper	13.7	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10F
		Dilution Factor: 1		Analysis Time..: 13:23		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7881

TOTAL Metals

Lot-Sample #...: H8F120201-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	19900	12.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10G
		Dilution Factor: 1		Analysis Time..: 13:23		
Magnesium	1630	602	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10H
		Dilution Factor: 1		Analysis Time..: 13:23		
Manganese	216	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10J
		Dilution Factor: 1		Analysis Time..: 13:23		
Nickel	17.7	4.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10K
		Dilution Factor: 1		Analysis Time..: 13:23		
Potassium	ND	602	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10L
		Dilution Factor: 1		Analysis Time..: 13:23		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10M
		Dilution Factor: 1		Analysis Time..: 13:23		
Sodium	ND	602	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10N
		Dilution Factor: 1		Analysis Time..: 13:23		
Vanadium	27.5	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10P
		Dilution Factor: 1		Analysis Time..: 13:23		
Zinc	39.5	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TH10Q
		Dilution Factor: 1		Analysis Time..: 13:23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7210

TOTAL Metals

Lot-Sample #...: H8F120201-007 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TJ10T
		Dilution Factor: 1		Analysis Time..: 13:36		
Prep Batch #...: 8181149						
Aluminum	11500	24.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ103
		Dilution Factor: 1		Analysis Time..: 13:28		
Arsenic	27.9	2.5	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TJ10N
		Dilution Factor: 2		Analysis Time..: 21:01		
Lead	13.2	0.75	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TJ10P
		Dilution Factor: 2		Analysis Time..: 21:01		
Antimony	7.9	7.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ104
		Dilution Factor: 1		Analysis Time..: 13:28		
Barium	239	24.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ105
		Dilution Factor: 1		Analysis Time..: 13:28		
Selenium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TJ10Q
		Dilution Factor: 2		Analysis Time..: 21:01		
Beryllium	0.71	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ106
		Dilution Factor: 1		Analysis Time..: 13:28		
Thallium	ND	2.5	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TJ10R
		Dilution Factor: 2		Analysis Time..: 21:01		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ107
		Dilution Factor: 1		Analysis Time..: 13:28		
Calcium	35300	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ108
		Dilution Factor: 1		Analysis Time..: 13:28		
Chromium	9.0	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ109
		Dilution Factor: 1		Analysis Time..: 13:28		
Cobalt	21.2	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10A
		Dilution Factor: 1		Analysis Time..: 13:28		
Copper	34.5	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10C
		Dilution Factor: 1		Analysis Time..: 13:28		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7210

TOTAL Metals

Lot-Sample #...: H8F120201-007 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	34500	12.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10D
		Dilution Factor: 1		Analysis Time..: 13:28		
Magnesium	12500	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10E
		Dilution Factor: 1		Analysis Time..: 13:28		
Manganese	2230	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10F
		Dilution Factor: 1		Analysis Time..: 13:28		
Nickel	57.2	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10G
		Dilution Factor: 1		Analysis Time..: 13:28		
Potassium	2330	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10H
		Dilution Factor: 1		Analysis Time..: 13:28		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10J
		Dilution Factor: 1		Analysis Time..: 13:28		
Sodium	1080	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10K
		Dilution Factor: 1		Analysis Time..: 13:28		
Vanadium	30.0	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10L
		Dilution Factor: 1		Analysis Time..: 13:28		
Zinc	83.1	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TJ10M
		Dilution Factor: 1		Analysis Time..: 13:28		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7220

TOTAL Metals

Lot-Sample #...: H8F120201-008 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.042	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TL10T
		Dilution Factor: 1		Analysis Time..: 13:38		
Prep Batch #...: 8181149						
Aluminum	10100	25.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL103
		Dilution Factor: 1		Analysis Time..: 13:33		
Arsenic	9.1	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TL10N
		Dilution Factor: 1		Analysis Time..: 21:07		
Lead	10.4	0.38	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TL10P
		Dilution Factor: 1		Analysis Time..: 21:07		
Antimony	ND	7.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL104
		Dilution Factor: 1		Analysis Time..: 13:33		
Barium	88.5	25.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL105
		Dilution Factor: 1		Analysis Time..: 13:33		
Selenium	ND	0.63	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TL10Q
		Dilution Factor: 1		Analysis Time..: 21:07		
Beryllium	ND	0.63	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL106
		Dilution Factor: 1		Analysis Time..: 13:33		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TL10R
		Dilution Factor: 1		Analysis Time..: 21:07		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL107
		Dilution Factor: 1		Analysis Time..: 13:33		
Calcium	35600	631	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL108
		Dilution Factor: 1		Analysis Time..: 13:33		
Chromium	17.7	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL109
		Dilution Factor: 1		Analysis Time..: 13:33		
Cobalt	11.6	6.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10A
		Dilution Factor: 1		Analysis Time..: 13:33		
Copper	23.3	3.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10C
		Dilution Factor: 1		Analysis Time..: 13:33		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7220

TOTAL Metals

Lot-Sample #...: H8F120201-008 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	22500	12.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10D
		Dilution Factor: 1		Analysis Time..: 13:33		
Magnesium	13900	631	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10E
		Dilution Factor: 1		Analysis Time..: 13:33		
Manganese	706	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10F
		Dilution Factor: 1		Analysis Time..: 13:33		
Nickel	32.5	5.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10G
		Dilution Factor: 1		Analysis Time..: 13:33		
Potassium	1790	631	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10H
		Dilution Factor: 1		Analysis Time..: 13:33		
Silver	ND	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10J
		Dilution Factor: 1		Analysis Time..: 13:33		
Sodium	1050	631	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10K
		Dilution Factor: 1		Analysis Time..: 13:33		
Vanadium	26.6	6.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10L
		Dilution Factor: 1		Analysis Time..: 13:33		
Zinc	65.9	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TL10M
		Dilution Factor: 1		Analysis Time..: 13:33		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7640

TOTAL Metals

Lot-Sample #...: H8F120201-009 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TM10T
		Dilution Factor: 1		Analysis Time..: 13:41		
Prep Batch #...: 8181149						
Aluminum	9560	22.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM103
		Dilution Factor: 1		Analysis Time..: 13:48		
Arsenic	7.3	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TM10N
		Dilution Factor: 1		Analysis Time..: 21:12		
Lead	9.6	0.34	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TM10P
		Dilution Factor: 1		Analysis Time..: 21:12		
Antimony	ND	6.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM104
		Dilution Factor: 1		Analysis Time..: 13:48		
Barium	71.5	22.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM105
		Dilution Factor: 1		Analysis Time..: 13:48		
Selenium	ND	0.57	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TM10Q
		Dilution Factor: 1		Analysis Time..: 21:12		
Beryllium	0.68	0.57	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM106
		Dilution Factor: 1		Analysis Time..: 13:48		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TM10R
		Dilution Factor: 1		Analysis Time..: 21:12		
Cadmium	ND	0.57	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM107
		Dilution Factor: 1		Analysis Time..: 13:48		
Calcium	4310	571	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM108
		Dilution Factor: 1		Analysis Time..: 13:48		
Chromium	14.0	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM109
		Dilution Factor: 1		Analysis Time..: 13:48		
Cobalt	6.4	5.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10A
		Dilution Factor: 1		Analysis Time..: 13:48		
Copper	10.4	2.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10C
		Dilution Factor: 1		Analysis Time..: 13:48		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7640

TOTAL Metals

Lot-Sample #...: H8F120201-009 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	16000	11.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10D
		Dilution Factor: 1		Analysis Time..: 13:48		
Magnesium	1900	571	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10E
		Dilution Factor: 1		Analysis Time..: 13:48		
Manganese	337	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10F
		Dilution Factor: 1		Analysis Time..: 13:48		
Nickel	12.1	4.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10G
		Dilution Factor: 1		Analysis Time..: 13:48		
Potassium	684	571	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10H
		Dilution Factor: 1		Analysis Time..: 13:48		
Silver	ND	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10J
		Dilution Factor: 1		Analysis Time..: 13:48		
Sodium	ND	571	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10K
		Dilution Factor: 1		Analysis Time..: 13:48		
Vanadium	23.7	5.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10L
		Dilution Factor: 1		Analysis Time..: 13:48		
Zinc	38.5	2.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TM10M
		Dilution Factor: 1		Analysis Time..: 13:48		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7660

TOTAL Metals

Lot-Sample #...: H8F120201-010 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TN10T
		Dilution Factor: 1		Analysis Time..: 13:43		
Prep Batch #...: 8181149						
Aluminum	12300	24.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN103
		Dilution Factor: 1		Analysis Time..: 13:53		
Arsenic	7.4	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TN10N
		Dilution Factor: 1		Analysis Time..: 21:18		
Lead	10.6	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TN10P
		Dilution Factor: 1		Analysis Time..: 21:18		
Antimony	7.8	7.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN104
		Dilution Factor: 1		Analysis Time..: 13:53		
Barium	69.5	24.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN105
		Dilution Factor: 1		Analysis Time..: 13:53		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TN10Q
		Dilution Factor: 1		Analysis Time..: 21:18		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN106
		Dilution Factor: 1		Analysis Time..: 13:53		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TN10R
		Dilution Factor: 1		Analysis Time..: 21:18		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN107
		Dilution Factor: 1		Analysis Time..: 13:53		
Calcium	55600	622	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN108
		Dilution Factor: 1		Analysis Time..: 13:53		
Chromium	20.0	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN109
		Dilution Factor: 1		Analysis Time..: 13:53		
Cobalt	12.0	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10A
		Dilution Factor: 1		Analysis Time..: 13:53		
Copper	25.4	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10C
		Dilution Factor: 1		Analysis Time..: 13:53		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7660

TOTAL Metals

Lot-Sample #...: H8F120201-010 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	23200	12.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10D
		Dilution Factor: 1		Analysis Time..: 13:53		
Magnesium	19100	622	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10E
		Dilution Factor: 1		Analysis Time..: 13:53		
Manganese	521	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10F
		Dilution Factor: 1		Analysis Time..: 13:53		
Nickel	30.9	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10G
		Dilution Factor: 1		Analysis Time..: 13:53		
Potassium	2730	622	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10H
		Dilution Factor: 1		Analysis Time..: 13:53		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10J
		Dilution Factor: 1		Analysis Time..: 13:53		
Sodium	ND	622	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10K
		Dilution Factor: 1		Analysis Time..: 13:53		
Vanadium	29.9	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10L
		Dilution Factor: 1		Analysis Time..: 13:53		
Zinc	65.3	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TN10M
		Dilution Factor: 1		Analysis Time..: 13:53		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7850

TOTAL Metals

Lot-Sample #...: H8F120201-011 Matrix.....: SOLID
Date Sampled...: 06/10/98 Date Received..: 06/12/98
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.039	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TP10T
		Dilution Factor: 1		Analysis Time..: 13:46		
Prep Batch #...: 8181149						
Aluminum	5570	23.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP103
		Dilution Factor: 1		Analysis Time..: 13:58		
Arsenic	3.1	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TP10N
		Dilution Factor: 1		Analysis Time..: 21:23		
Lead	2.9	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TP10P
		Dilution Factor: 1		Analysis Time..: 21:23		
Antimony	ND	7.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP104
		Dilution Factor: 1		Analysis Time..: 13:58		
Barium	ND	23.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP105
		Dilution Factor: 1		Analysis Time..: 13:58		
Selenium	ND	0.60	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TP10Q
		Dilution Factor: 1		Analysis Time..: 21:23		
Beryllium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP106
		Dilution Factor: 1		Analysis Time..: 13:58		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TP10R
		Dilution Factor: 1		Analysis Time..: 21:23		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP107
		Dilution Factor: 1		Analysis Time..: 13:58		
Calcium	1850	597	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP108
		Dilution Factor: 1		Analysis Time..: 13:58		
Chromium	15.5	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP109
		Dilution Factor: 1		Analysis Time..: 13:58		
Cobalt	7.3	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10A
		Dilution Factor: 1		Analysis Time..: 13:58		
Copper	5.3	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10C
		Dilution Factor: 1		Analysis Time..: 13:58		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7850

TOTAL Metals

Lot-Sample #...: H8F120201-011 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	16400	11.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10D
		Dilution Factor: 1		Analysis Time..: 13:58		
Magnesium	917	597	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10E
		Dilution Factor: 1		Analysis Time..: 13:58		
Manganese	323	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10F
		Dilution Factor: 1		Analysis Time..: 13:58		
Nickel	8.1	4.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10G
		Dilution Factor: 1		Analysis Time..: 13:58		
Potassium	ND	597	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10H
		Dilution Factor: 1		Analysis Time..: 13:58		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10J
		Dilution Factor: 1		Analysis Time..: 13:58		
Sodium	ND	597	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10K
		Dilution Factor: 1		Analysis Time..: 13:58		
Vanadium	29.3	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10L
		Dilution Factor: 1		Analysis Time..: 13:58		
Zinc	22.7	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TP10M
		Dilution Factor: 1		Analysis Time..: 13:58		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7860

TOTAL Metals

Lot-Sample #...: H8F120201-012 **Matrix.....:** SOLID
Date Sampled...: 06/10/98 **Date Received..:** 06/12/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TQ10T
		Dilution Factor: 1		Analysis Time..: 13:48		
Prep Batch #...: 8181149						
Aluminum	3320	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ103
		Dilution Factor: 1		Analysis Time..: 14:03		
Arsenic	4.5	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TQ10N
		Dilution Factor: 1		Analysis Time..: 21:29		
Lead	4.3	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TQ10P
		Dilution Factor: 1		Analysis Time..: 21:29		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ104
		Dilution Factor: 1		Analysis Time..: 14:03		
Barium	ND	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ105
		Dilution Factor: 1		Analysis Time..: 14:03		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TQ10Q
		Dilution Factor: 1		Analysis Time..: 21:29		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ106
		Dilution Factor: 1		Analysis Time..: 14:03		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TQ10R
		Dilution Factor: 1		Analysis Time..: 21:29		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ107
		Dilution Factor: 1		Analysis Time..: 14:03		
Calcium	61500	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ108
		Dilution Factor: 1		Analysis Time..: 14:03		
Chromium	7.3	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ109
		Dilution Factor: 1		Analysis Time..: 14:03		
Cobalt	ND	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10A
		Dilution Factor: 1		Analysis Time..: 14:03		
Copper	10.6	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10C
		Dilution Factor: 1		Analysis Time..: 14:03		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7860

TOTAL Metals

Lot-Sample #...: H8F120201-012 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	8940	12.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10D
		Dilution Factor: 1		Analysis Time..: 14:03		
Magnesium	16200	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10E
		Dilution Factor: 1		Analysis Time..: 14:03		
Manganese	252	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10F
		Dilution Factor: 1		Analysis Time..: 14:03		
Nickel	11.0	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10G
		Dilution Factor: 1		Analysis Time..: 14:03		
Potassium	726	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10H
		Dilution Factor: 1		Analysis Time..: 14:03		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10J
		Dilution Factor: 1		Analysis Time..: 14:03		
Sodium	ND	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10K
		Dilution Factor: 1		Analysis Time..: 14:03		
Vanadium	15.0	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10L
		Dilution Factor: 1		Analysis Time..: 14:03		
Zinc	31.6	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TQ10M
		Dilution Factor: 1		Analysis Time..: 14:03		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7890

TOTAL Metals

Lot-Sample #...: H8F120201-013 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.042	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TR10T
		Dilution Factor: 1		Analysis Time..: 13:56		
Prep Batch #...: 8181149						
Aluminum	7340	25.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR103
		Dilution Factor: 1		Analysis Time..: 14:08		
Arsenic	27.3	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TR10N
		Dilution Factor: 1		Analysis Time..: 21:35		
Lead	7.6	0.38	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TR10P
		Dilution Factor: 1		Analysis Time..: 21:35		
Antimony	ND	7.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR104
		Dilution Factor: 1		Analysis Time..: 14:08		
Barium	41.8	25.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR105
		Dilution Factor: 1		Analysis Time..: 14:08		
Selenium	ND	0.64	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TR10Q
		Dilution Factor: 1		Analysis Time..: 21:35		
Beryllium	ND	0.64	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR106
		Dilution Factor: 1		Analysis Time..: 14:08		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TR10R
		Dilution Factor: 1		Analysis Time..: 21:35		
Cadmium	ND	0.64	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR107
		Dilution Factor: 1		Analysis Time..: 14:08		
Calcium	38400	639	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR108
		Dilution Factor: 1		Analysis Time..: 14:08		
Chromium	13.6	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR109
		Dilution Factor: 1		Analysis Time..: 14:08		
Cobalt	8.7	6.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10A
		Dilution Factor: 1		Analysis Time..: 14:08		
Copper	19.0	3.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10C
		Dilution Factor: 1		Analysis Time..: 14:08		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7890

TOTAL Metals

Lot-Sample #...: H8F120201-013 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	20000	12.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10D
		Dilution Factor: 1		Analysis Time..: 14:08		
Magnesium	12800	639	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10E
		Dilution Factor: 1		Analysis Time..: 14:08		
Manganese	300	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10F
		Dilution Factor: 1		Analysis Time..: 14:08		
Nickel	21.5	5.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10G
		Dilution Factor: 1		Analysis Time..: 14:08		
Potassium	1310	639	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10H
		Dilution Factor: 1		Analysis Time..: 14:08		
Silver	ND	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10J
		Dilution Factor: 1		Analysis Time..: 14:08		
Sodium	ND	639	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10K
		Dilution Factor: 1		Analysis Time..: 14:08		
Vanadium	25.7	6.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10L
		Dilution Factor: 1		Analysis Time..: 14:08		
Zinc	56.2	2.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TR10M
		Dilution Factor: 1		Analysis Time..: 14:08		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7900

TOTAL Metals

Lot-Sample #...: H8F120201-014 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/12/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8175164						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/24-06/25/98	CJ0TV10T
		Dilution Factor: 1		Analysis Time..: 13:58		
Prep Batch #...: 8181149						
Aluminum	9140	25.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV103
		Dilution Factor: 1		Analysis Time..: 14:13		
Arsenic	5.8	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TV10N
		Dilution Factor: 1		Analysis Time..: 18:09		
Lead	9.6	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TV10P
		Dilution Factor: 1		Analysis Time..: 18:09		
Antimony	ND	7.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV104
		Dilution Factor: 1		Analysis Time..: 14:13		
Barium	66.2	25.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV105
		Dilution Factor: 1		Analysis Time..: 14:13		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TV10Q
		Dilution Factor: 1		Analysis Time..: 18:09		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV106
		Dilution Factor: 1		Analysis Time..: 14:13		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ0TV10R
		Dilution Factor: 1		Analysis Time..: 18:09		
Cadmium	0.63	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV107
		Dilution Factor: 1		Analysis Time..: 14:13		
Calcium	61600	624	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV108
		Dilution Factor: 1		Analysis Time..: 14:13		
Chromium	15.7	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV109
		Dilution Factor: 1		Analysis Time..: 14:13		
Cobalt	10.6	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10A
		Dilution Factor: 1		Analysis Time..: 14:13		
Copper	24.3	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10C
		Dilution Factor: 1		Analysis Time..: 14:13		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7900

TOTAL Metals

Lot-Sample #...: H8F120201-014 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	20600	12.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10D
		Dilution Factor: 1		Analysis Time..: 14:13		
Magnesium	19200	624	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10E
		Dilution Factor: 1		Analysis Time..: 14:13		
Manganese	534	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10F
		Dilution Factor: 1		Analysis Time..: 14:13		
Nickel	29.0	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10G
		Dilution Factor: 1		Analysis Time..: 14:13		
Potassium	1990	624	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10H
		Dilution Factor: 1		Analysis Time..: 14:13		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10J
		Dilution Factor: 1		Analysis Time..: 14:13		
Sodium	ND	624	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10K
		Dilution Factor: 1		Analysis Time..: 14:13		
Vanadium	24.6	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10L
		Dilution Factor: 1		Analysis Time..: 14:13		
Zinc	64.5	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ0TV10M
		Dilution Factor: 1		Analysis Time..: 14:13		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F300000-149 **Prep Batch #...:** 8181149						
Aluminum	ND	20.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF40101
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Arsenic	ND	1.0	mg/kg	SW846 6010A	06/30-07/07/98	CJF4010P
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Antimony	ND	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF40102
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Lead	ND	0.30	mg/kg	SW846 6010A	06/30-07/07/98	CJF4010J
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Barium	ND	20.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF40103
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Selenium	ND	0.50	mg/kg	SW846 6010A	06/30-07/07/98	CJF4010K
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Beryllium	ND	0.50	mg/kg	SW846 6010A	06/30-07/06/98	CJF40104
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Thallium	ND	1.0	mg/kg	SW846 6010A	06/30-07/07/98	CJF4010L
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Cadmium	ND	0.50	mg/kg	SW846 6010A	06/30-07/06/98	CJF40105
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Calcium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF40106
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Chromium	ND	1.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010F
		Dilution Factor: 1				
		Analysis Time..: 12:09				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010G
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Copper	ND	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010H
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Iron	ND	10.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF40107
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Magnesium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF40108
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Manganese	ND	1.5	mg/kg	SW846 6010A	06/30-07/06/98	CJF40109
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Nickel	ND	4.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010A
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Potassium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010C
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Silver	ND	1.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010D
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Sodium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010E
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Vanadium	ND	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010M
		Dilution Factor: 1				
		Analysis Time..: 12:09				
Zinc	ND	2.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4010N
		Dilution Factor: 1				
		Analysis Time..: 12:09				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F240000-164 **Prep Batch #...:** 8175164						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/24-06/25/98	CJ95X101
		Dilution Factor: 1				
		Analysis Time..: 13:01				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F120201-001 **Prep Batch #...:** 8175164							
Mercury	97	(55 - 130)			SW846 7471A	06/24-06/25/98	CJ0TA12N
	96	(55 - 130)	0.90	(0-20)	SW846 7471A	06/24-06/25/98	CJ0TA12P
		Dilution Factor: 1					
		Analysis Time..: 13:09					
MS Lot-Sample #: H8F120201-001 **Prep Batch #...:** 8181149							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA10G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA10H
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Arsenic	76 N	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ0TA129
	74 N	(80 - 120)	1.8	(0-20)	SW846 6010A	06/30-07/07/98	CJ0TA12A
		Dilution Factor: 1					
		Analysis Time..: 19:49					
Antimony	64 N	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA10K
	71 N	(80 - 120)	10	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA10L
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Lead	81	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ0TA12D
	84	(80 - 120)	3.7	(0-20)	SW846 6010A	06/30-07/07/98	CJ0TA12E
		Dilution Factor: 1					
		Analysis Time..: 19:49					
Barium	92	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA10N
	97	(80 - 120)	3.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA10P
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Selenium	78 N	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ0TA12G
	80	(80 - 120)	2.6	(0-20)	SW846 6010A	06/30-07/07/98	CJ0TA12H
		Dilution Factor: 1					
		Analysis Time..: 19:49					
Beryllium	99	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA10R
	100	(80 - 120)	1.1	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA10T
		Dilution Factor: 1					
		Analysis Time..: 12:24					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	76 N	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ0TA12K
	77 N	(80 - 120)	2.1	(0-20)	SW846 6010A	06/30-07/07/98	CJ0TA12L
		Dilution Factor: 1					
		Analysis Time..: 19:49					
Cadmium	102	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA10V
	99	(80 - 120)	2.2	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA10W
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Calcium	90	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA110
	97	(80 - 120)	3.6	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA111
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Chromium	125 N	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA113
	112	(80 - 120)	7.5	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA114
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Cobalt	95	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA116
	101	(80 - 120)	5.4	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA117
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Copper	94	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA119
	103	(80 - 120)	4.9	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA11A
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Iron	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA11D
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA11E
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Magnesium	110	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA11G
	106	(80 - 120)	2.7	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA11H
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Manganese	112	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA11K
	641 N,*	(80 - 120)	59	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA11L
		Dilution Factor: 1					
		Analysis Time..: 12:24					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	103	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA11N
	105	(80 - 120)	1.7	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA11P
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Potassium	126 N	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA11R
	109	(80 - 120)	13	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA11T
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Silver	75 N	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA11V
	77 N	(80 - 120)	1.6	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA11W
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Sodium	97	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA120
	97	(80 - 120)	0.06	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA121
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Vanadium	121 N	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA123
	112	(80 - 120)	6.2	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA124
		Dilution Factor: 1					
		Analysis Time..: 12:24					
Zinc	114	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TA126
	104	(80 - 120)	4.1	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TA127
		Dilution Factor: 1					
		Analysis Time..: 12:24					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F120201-005 **Prep Batch #...:** 8175164							
Mercury	92	(55 - 130)			SW846 7471A	06/24-06/25/98	CJ0TG12N
	95	(55 - 130)	3.2	(0-20)	SW846 7471A	06/24-06/25/98	CJ0TG12P
		Dilution Factor: 1					
		Analysis Time..: 13:28					
MS Lot-Sample #: H8F120201-005 **Prep Batch #...:** 8181149							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG10G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG10H
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Arsenic	82	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ0TG129
	80	(80 - 120)	1.7	(0-20)	SW846 6010A	06/30-07/07/98	CJ0TG12A
		Dilution Factor: 1					
		Analysis Time..: 20:28					
Antimony	64 N	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG10K
	62 N	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG10L
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Lead	83	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ0TG12D
	82	(80 - 120)	0.99	(0-20)	SW846 6010A	06/30-07/07/98	CJ0TG12E
		Dilution Factor: 1					
		Analysis Time..: 20:28					
Barium	94	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG10N
	92	(80 - 120)	2.3	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG10P
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Selenium	81	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ0TG12G
	80	(80 - 120)	1.7	(0-20)	SW846 6010A	06/30-07/07/98	CJ0TG12H
		Dilution Factor: 1					
		Analysis Time..: 20:28					
Beryllium	99	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG10R
	98	(80 - 120)	0.58	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG10T
		Dilution Factor: 1					
		Analysis Time..: 13:08					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	79 N	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ0TG12K
	79 N	(80 - 120)	0.75	(0-20)	SW846 6010A	06/30-07/07/98	CJ0TG12L
		Dilution Factor: 1					
		Analysis Time..: 20:28					
Cadmium	108	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG10V
	105	(80 - 120)	2.2	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG10W
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Calcium	105	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG110
	102	(80 - 120)	2.7	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG111
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Chromium	109	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG113
	102	(80 - 120)	4.2	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG114
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Cobalt	98	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG116
	96	(80 - 120)	1.5	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG117
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Copper	91	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG119
	90	(80 - 120)	1.1	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG11A
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Iron	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG11D
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG11E
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Magnesium	107	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG11G
	103	(80 - 120)	3.0	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG11H
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Manganese	121 N	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG11K
	28 N,*	(80 - 120)	26	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG11L
		Dilution Factor: 1					
		Analysis Time..: 13:08					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	97	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG11N
	97	(80 - 120)	0.46	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG11P
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Potassium	106	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG11R
	101	(80 - 120)	4.1	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG11T
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Silver	88	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG11V
	84	(80 - 120)	4.1	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG11W
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Sodium	98	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG120
	97	(80 - 120)	0.71	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG121
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Vanadium	104	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG123
	96	(80 - 120)	4.9	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG124
		Dilution Factor: 1					
		Analysis Time..: 13:08					
Zinc	103	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ0TG126
	99	(80 - 120)	3.0	(0-20)	SW846 6010A	06/30-07/06/98	CJ0TG127
		Dilution Factor: 1					
		Analysis Time..: 13:08					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8F240000-164 **Prep Batch #...:** 8175164					
Mercury	101	(80 - 120)	SW846 7471A	06/24-06/25/98	CJ95X102
		Dilution Factor: 1			
		Analysis Time..: 13:04			
LCS Lot-Sample#: H8F300000-149 **Prep Batch #...:** 8181149					
Aluminum	98	(89 - 119)	SW846 6010A	06/30-07/06/98	CJF4010Q
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Antimony	107	(86 - 119)	SW846 6010A	06/30-07/06/98	CJF4010R
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Barium	94	(88 - 110)	SW846 6010A	06/30-07/06/98	CJF4010T
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Beryllium	100	(80 - 118)	SW846 6010A	06/30-07/06/98	CJF4010U
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Cadmium	105	(80 - 113)	SW846 6010A	06/30-07/06/98	CJF4010V
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Calcium	102	(84 - 117)	SW846 6010A	06/30-07/06/98	CJF4010W
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Copper	97	(86 - 111)	SW846 6010A	06/30-07/06/98	CJF4010X
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Lead	92	(84 - 110)	SW846 6010A	06/30-07/07/98	CJF4011A
		Dilution Factor: 1			
		Analysis Time..: 14:05			
Selenium	89	(80 - 110)	SW846 6010A	06/30-07/07/98	CJF4011C
		Dilution Factor: 1			
		Analysis Time..: 14:05			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	88	(83 - 110)	SW846 6010A	06/30-07/07/98	CJF4011D
		Dilution Factor: 1			
		Analysis Time..: 14:05			
Vanadium	96	(89 - 113)	SW846 6010A	06/30-07/06/98	CJF4011E
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Zinc	97	(89 - 118)	SW846 6010A	06/30-07/06/98	CJF4011F
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Iron	97	(87 - 120)	SW846 6010A	06/30-07/06/98	CJF40110
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Magnesium	100	(86 - 119)	SW846 6010A	06/30-07/06/98	CJF40111
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Manganese	95	(89 - 112)	SW846 6010A	06/30-07/06/98	CJF40112
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Nickel	97	(88 - 115)	SW846 6010A	06/30-07/06/98	CJF40113
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Potassium	98	(83 - 113)	SW846 6010A	06/30-07/06/98	CJF40114
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Silver	83	(80 - 117)	SW846 6010A	06/30-07/06/98	CJF40115
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Sodium	98	(85 - 115)	SW846 6010A	06/30-07/06/98	CJF40116
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Chromium	101	(87 - 118)	SW846 6010A	06/30-07/06/98	CJF40117
		Dilution Factor: 1			
		Analysis Time..: 12:14			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB029 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	98	(87 - 110)	SW846 6010A	06/30-07/06/98	CJF40118
		Dilution Factor: 1			
		Analysis Time..: 12:14			
Arsenic	90	(83 - 110)	SW846 6010A	06/30-07/07/98	CJF40119
		Dilution Factor: 1			
		Analysis Time..: 14:05			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group
Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB029

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	TOTAL	EXP
				8260A	8270B	8081	6010A	8330
1	6/12/98	H8F120201	7200	QC	QC	QC	QC	QC
2			7201	X	X	X	X	X
3			7210				X	X
4			7220				X	X
5			7640				X	X
6			7650	X	X	X	X	X
7			7660				X	X
8			7840	X	X	X	X	X
9			7850				X	X
10			7860				X	X
11			7880	QC	QC	QC	QC	QC
12			7881	X	X	X	X	X
13			7890				X	X
14			7900				X	X
15								
16								
17								
18								
19								
20								
21								

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: SOIL
ANALYTICAL DUE: 7-6-98
REPORT DUE: 7-10-98
CLOSED?_YES___

7/7/98 9:50 AM

QUANTERRA KNOXVILLE LABORATORY

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: ITKay PROJECT: PBOW Lot No.: H8F120201

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?			✓
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/12/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ? SOILS			✓
2. If custody seals were missing/not intact, was client notified?			

PROJECT MANAGER : [signature] DATE: 6/12/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.

☐ Noted actions in comments section above.

☐ No action necessary; process as is.

Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNO PROJECT: PBSW Lot No.: HBF120201

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?	✓		
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/10/98

Quote# 23581

148F120201

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061198QESK

Project Number: 773701

Samples Shipment Date: 11-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850031

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown |X|

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/11/98 Time: 1800

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client | | Disposal by Lab |X| Archive (mos.)

1. Received By (Signature/Affiliation) [signature] Date: 6/12/98 Time: 0930

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd @ 2 °c
w/custody Seals
Intact BPB 6/12/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7200	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A ✓	N		
7200	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil ✓	N		
7200	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil ✓	N		
7200	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil ✓	N		
7200-MS	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7200-MS	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7200-MS	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F120201

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061198QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7200-MS	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7200-MSD	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7200-MSD	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7200-MSD	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7200-MSD	PBOW-98-SO-PRRP-DP01-7200-(0001	11-JUN-98	12:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7201	PBOW-98-SO-PRRP-DP01-7201-(0001	11-JUN-98	12:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7201	PBOW-98-SO-PRRP-DP01-7201-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7201	PBOW-98-SO-PRRP-DP01-7201-(0001	11-JUN-98	12:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7201	PBOW-98-SO-PRRP-DP01-7201-(0001	11-JUN-98	12:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7210	PBOW-98-SO-PRRP-DP01-7210-(0405	11-JUN-98	12:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7210	PBOW-98-SO-PRRP-DP01-7210-(0405	11-JUN-98	12:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7220	PBOW-98-SO-PRRP-DP01-7220-(0910	11-JUN-98	13:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7220	PBOW-98-SO-PRRP-DP01-7220-(0910	11-JUN-98	13:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7640	PBOW-98-SO-PRRP-DP12-7640-(0001	11-JUN-98	08:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7640	PBOW-98-SO-PRRP-DP12-7640-(0001	11-JUN-98	08:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7650	PBOW-98-SO-PRRP-DP12-7650-(0405	11-JUN-98	08:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7650	PBOW-98-SO-PRRP-DP12-7650-(0405	11-JUN-98	08:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7650	PBOW-98-SO-PRRP-DP12-7650-(0405	11-JUN-98	08:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7650	PBOW-98-SO-PRRP-DP12-7650-(0405	11-JUN-98	08:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7660	PBOW-98-SO-PRRP-DP12-7660-(0910	11-JUN-98	08:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7660	PBOW-98-SO-PRRP-DP12-7660-(0910	11-JUN-98	08:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7670	PBOW-98-GW-PRRP-DP12-7670	11-JUN-98	09:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7840	PBOW-98-SO-PRRP-DP17-7840-(0001	10-JUN-98	16:55	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7840	PBOW-98-SO-PRRP-DP17-7840-(0001	10-JUN-98	16:55	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7840	PBOW-98-SO-PRRP-DP17-7840-(0001	10-JUN-98	16:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7840	PBOW-98-SO-PRRP-DP17-7840-(0001	10-JUN-98	16:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7850	PBOW-98-SO-PRRP-DP17-7850-(0405	10-JUN-98	17:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7850	PBOW-98-SO-PRRP-DP17-7850-(0405	10-JUN-98	17:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F120201

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061198QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7860	PBOW-98-SO-PRRP-DP17-7860-(0910	10-JUN-98	17:15	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7860	PBOW-98-SO-PRRP-DP17-7860-(0910	10-JUN-98	17:15	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		
7870	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7871	PBOW-98-GW-PRRP-DP17-7870	11-JUN-98	12:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7880	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7880	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7880	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7880	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7880-MS	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7880-MS	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7880-MS	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7880-MS	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7880-MSD	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7880-MSD	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7880-MSD	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7880-MSD	PBOW-98-SO-PRRP-DP18-7880-(0001	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7881	PBOW-98-SO-PRRP-DP18-7881-(0001	11-JUN-98	14:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7881	PBOW-98-SO-PRRP-DP18-7881-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7881	PBOW-98-SO-PRRP-DP18-7881-(0001	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7881	PBOW-98-SO-PRRP-DP18-7881-(0001	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7890	PBOW-98-SO-PRRP-DP18-7890-(0405	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7890	PBOW-98-SO-PRRP-DP18-7890-(0405	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7900	PBOW-98-SO-PRRP-DP18-7900-(0910	11-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F120201

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061198QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7900	PBOW-98-SO-PRRP-DP18-7900-(0910	11-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
9028		11-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

Quanterra Environmental Services

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

ANALYTICAL REPORT

PROJECT NO. 773701

PBOW-Red Water Ponds
SDG #: PB030

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

July 16, 1998

Quanterra
Environmental Services

SAMPLE SUMMARY

PB030 : H8F160180

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ33N	001	8380	06/15/98	13:50
CJ33P	002	8550	06/15/98	09:25
CJ33Q	003	8580	06/15/98	10:50
CJ33R	004	8390	06/15/98	14:00
CJ33T	005	8400	06/15/98	14:10
CJ33V	006	8540	06/15/98	09:15
CJ33W	007	8560	06/15/98	09:35
CJ33X	008	8590	06/15/98	11:00
CJ340	009	8600	06/15/98	11:10

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

SAMPLE SUMMARY

PB030 : H8F130132

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ1CM	001	7680	06/12/98	10:40
CJ1CN	002	7690	06/12/98	10:50
CJ1CQ	003	7730	06/11/98	16:30
CJ1CR	004	7740	06/11/98	16:40
CJ1CT	005	7760	06/12/98	13:05
CJ1CV	006	7770	06/12/98	13:10
CJ1CW	007	7930	06/12/98	14:35
CJ1CX	008	7940	06/12/98	14:45
CJ1D0	009	7700	06/12/98	11:00
CJ1D1	010	7720	06/11/98	16:20
CJ1D2	011	7780	06/12/98	13:15
CJ1D3	012	7920	06/12/98	14:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB030

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F120201-005	D	06/12/98	LAB MS/MSD
H8F120201-005	S	06/12/98	LAB MS/MSD
H8F130132-001		06/13/98	7680
H8F130132-001	D	06/13/98	7680
H8F130132-001	S	06/13/98	7680
H8F130132-002		06/13/98	7690
H8F130132-003		06/13/98	7730
H8F130132-004		06/13/98	7740
H8F130132-005		06/13/98	7760
H8F130132-006		06/13/98	7770
H8F130132-007		06/13/98	7930
H8F130132-008		06/13/98	7940
H8F130132-009		06/13/98	7700
H8F130132-010		06/13/98	7720
H8F130132-011		06/13/98	7780
H8F130132-012		06/13/98	7920
H8F150116-001	D	06/15/98	LAB MS/MSD
H8F150116-001	S	06/15/98	LAB MS/MSD
H8F160180-001		06/16/98	8380
H8F160180-002		06/16/98	8550
H8F160180-003		06/16/98	8580
H8F160180-004		06/16/98	8390
H8F160180-005		06/16/98	8400
H8F160180-006		06/16/98	8540
H8F160180-007		06/16/98	8560
H8F160180-008		06/16/98	8590
H8F160180-009		06/16/98	8600
H8F170153-006	D	06/17/98	LAB MS/MSD
H8F170153-006	S	06/17/98	LAB MS/MSD

ANALYTICAL METHODS SUMMARY

Quanterra Environmental Services

PB030

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides and PCBs	SW846 8081
Percent Moisture	MCAWW 160.3 MOD
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Volatiles

The batch matrix spike/matrix spike duplicate RPDs were acceptable for all analytes except 1,1-dichloroethylene. The laboratory control sample showed acceptable results indicating that the analysis was in control. Results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level.

Explosives

Sample 7780 was reported with elevated reporting limits for all analytes due to the difficult sample matrix. The lowest dilution that could be analyzed was performed; the reporting limits were adjusted accordingly. Surrogate recovery for this sample was also outside control limits, and was not re-analyzed due to the difficult matrix.

The batch matrix spike/matrix spike duplicate RPDs were acceptable for all analytes except HMX. The laboratory control sample showed acceptable results indicating that the analysis was in control. The batch matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects.

Metals

The batch matrix spike/matrix spike duplicate recoveries and RPDs were outside control limits for some analytes. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. The batch matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

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Quanterra Incorporated, Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New Mexico ED, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7700

GC/MS Volatiles

Lot-Sample #...: H8F130132-009 **Work Order #...:** CJ1D0102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.0	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(64 - 135)
Toluene-d8	104	(77 - 124)
4-Bromofluorobenzene	115	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7700

GC/MS Volatiles

Lot-Sample #...: H8F130132-009 **Work Order #...:** CJ1D0102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7720

GC/MS Volatiles

Lot-Sample #...: H8F130132-010 **Work Order #...:** CJ1D1102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(64 - 135)
Toluene-d8	106	(77 - 124)
4-Bromofluorobenzene	115	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7720

GC/MS Volatiles

Lot-Sample #...: H8F130132-010 **Work Order #...:** CJ1D1102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7780

GC/MS Volatiles

Lot-Sample #...: H8F130132-011 **Work Order #...:** CJ1D2202 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethene (total)	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
Trichloroethene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Benzene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Toluene	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
Styrene	ND	6.1	ug/kg
Xylenes (total)	ND	6.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(64 - 135)
Toluene-d8	106	(77 - 124)
4-Bromofluorobenzene	112	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7780

GC/MS Volatiles

Lot-Sample #...: H8F130132-011 **Work Order #...:** CJ1D2202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7920

GC/MS Volatiles

Lot-Sample #...: H8F130132-012 **Work Order #...:** CJ1D3102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1
% Moisture.....: 8.9 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	**1.8 J**	**5.5**	**ug/kg**
Acetone	ND	22	ug/kg
Carbon disulfide	ND	5.5	ug/kg
1,1-Dichloroethene	ND	5.5	ug/kg
1,1-Dichloroethane	ND	5.5	ug/kg
1,2-Dichloroethene (total)	ND	5.5	ug/kg
Chloroform	ND	5.5	ug/kg
1,2-Dichloroethane	ND	5.5	ug/kg
2-Butanone	ND	22	ug/kg
1,1,1-Trichloroethane	ND	5.5	ug/kg
Carbon tetrachloride	ND	5.5	ug/kg
Bromodichloromethane	ND	5.5	ug/kg
1,2-Dichloropropane	ND	5.5	ug/kg
cis-1,3-Dichloropropene	ND	5.5	ug/kg
Trichloroethene	ND	5.5	ug/kg
Dibromochloromethane	ND	5.5	ug/kg
1,1,2-Trichloroethane	ND	5.5	ug/kg
Benzene	ND	5.5	ug/kg
trans-1,3-Dichloropropene	ND	5.5	ug/kg
Bromoform	ND	5.5	ug/kg
4-Methyl-2-pentanone	ND	22	ug/kg
2-Hexanone	ND	22	ug/kg
Tetrachloroethene	ND	5.5	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
Toluene	ND	5.5	ug/kg
Chlorobenzene	ND	5.5	ug/kg
Ethylbenzene	ND	5.5	ug/kg
Styrene	ND	5.5	ug/kg
Xylenes (total)	ND	5.5	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(64 - 135)
Toluene-d8	104	(77 - 124)
4-Bromofluorobenzene	96	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7920

GC/MS Volatiles

Lot-Sample #...: H8F130132-012 **Work Order #...:** CJ1D3102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8380

GC/MS Volatiles

Lot-Sample #...: H8F160180-001 **Work Order #...:** CJ33N102 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/22/98 **Analysis Date..:** 06/22/98
Prep Batch #...: 8173138
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**2.0 J**	**5.8**	**ug/kg**
Acetone	**35**	**23**	**ug/kg**
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(64 - 135)
Toluene-d8	96	(77 - 124)
4-Bromofluorobenzene	108	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8380

GC/MS Volatiles

Lot-Sample #...: H8F160180-001 **Work Order #...:** CJ33N102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8550

GC/MS Volatiles

Lot-Sample #...: H8F160180-002 **Work Order #...:** CJ33P202 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/22/98 **Analysis Date..:** 06/22/98
Prep Batch #...: 8173138
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**2.0 J**	**6.2**	**ug/kg**
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	102	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8550

GC/MS Volatiles

Lot-Sample #...: H8F160180-002 **Work Order #...:** CJ33P202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8580

GC/MS Volatiles

Lot-Sample #...: H8F160180-003 **Work Order #...:** CJ33Q202 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/22/98 **Analysis Date..:** 06/22/98
Prep Batch #...: 8173138
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	**2.3 J**	**5.7**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.7	ug/kg
1,1-Dichloroethene	ND	5.7	ug/kg
1,1-Dichloroethane	ND	5.7	ug/kg
1,2-Dichloroethene (total)	ND	5.7	ug/kg
Chloroform	ND	5.7	ug/kg
1,2-Dichloroethane	ND	5.7	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.7	ug/kg
Carbon tetrachloride	ND	5.7	ug/kg
Bromodichloromethane	ND	5.7	ug/kg
1,2-Dichloropropane	ND	5.7	ug/kg
cis-1,3-Dichloropropene	ND	5.7	ug/kg
Trichloroethene	ND	5.7	ug/kg
Dibromochloromethane	ND	5.7	ug/kg
1,1,2-Trichloroethane	ND	5.7	ug/kg
Benzene	ND	5.7	ug/kg
trans-1,3-Dichloropropene	ND	5.7	ug/kg
Bromoform	ND	5.7	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
Toluene	ND	5.7	ug/kg
Chlorobenzene	ND	5.7	ug/kg
Ethylbenzene	ND	5.7	ug/kg
Styrene	ND	5.7	ug/kg
Xylenes (total)	ND	5.7	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 135)
Toluene-d8	97	(77 - 124)
4-Bromofluorobenzene	104	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8580

GC/MS Volatiles

Lot-Sample #...: H8F160180-003 **Work Order #...:** CJ33Q202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB030 **Work Order #...:** CJ46N101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F180000-123

Prep Date.....: 06/18/98
Analysis Date..: 06/18/98 **Prep Batch #...:** 8169123
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB030 **Work Order #...:** CJ0TG103-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-005 CJ0TG104-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1 **% Moisture.....:** 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**115**	**(64 - 146)**			**SW846 8260A**
	91 p	**(64 - 146)**	**24**	**(0-18)**	**SW846 8260A**
Benzene	**108**	**(74 - 122)**			**SW846 8260A**
	98	**(74 - 122)**	**9.4**	**(0-15)**	**SW846 8260A**
Trichloroethene	**105**	**(41 - 151)**			**SW846 8260A**
	99	**(41 - 151)**	**6.1**	**(0-28)**	**SW846 8260A**
Toluene	**112**	**(69 - 132)**			**SW846 8260A**
	113	**(69 - 132)**	**0.32**	**(0-24)**	**SW846 8260A**
Chlorobenzene	**106**	**(67 - 121)**			**SW846 8260A**
	102	**(67 - 121)**	**3.9**	**(0-18)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(64 - 135)
	97	(64 - 135)
Toluene-d8	107	(77 - 124)
	112	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)
	109	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB030 **Work Order #...:** CJ46N102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F180000-123
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**95**	**(67 - 137)**	**SW846 8260A**
Benzene	**95**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**105**	**(68 - 126)**	**SW846 8260A**
Toluene	**101**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**99**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	98	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB030 **Work Order #...:** CJ5NQ101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F190000-213

Prep Date.....: 06/19/98
Analysis Date..: 06/19/98 **Prep Batch #...:** 8170213
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(64 - 135)
Toluene-d8	108	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB030 **Work Order #...:** CJ5NQ102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F190000-213
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**107**	**(67 - 137)**	**SW846 8260A**
Benzene	**102**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**110**	**(68 - 126)**	**SW846 8260A**
Toluene	**111**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**106**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	100	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8F160180 **Work Order #...:** CJ6XM101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F220000-138

Prep Date.....: 06/22/98
Analysis Date..: 06/22/98 **Prep Batch #...:** 8173138
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(64 - 135)
Toluene-d8	94	(77 - 124)
4-Bromofluorobenzene	94	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB030 **Work Order #...:** CJ6XM102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F220000-138
Prep Date.....: 06/22/98 **Analysis Date..:** 06/22/98
Prep Batch #...: 8173138
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**84**	**(67 - 137)**	**SW846 8260A**
Benzene	**96**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**98**	**(68 - 126)**	**SW846 8260A**
Toluene	**104**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**102**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	92	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7700

GC/MS Semivolatiles

Lot-Sample #...: H8F130132-009 **Work Order #...:** CJ1D0103 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	400	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7700

GC/MS Semivolatiles

Lot-Sample #...: H8F130132-009 **Work Order #...:** CJ1D0103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	400	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	ND	400	ug/kg
Benzo(k)fluoranthene	ND	400	ug/kg
Benzo(a)pyrene	ND	400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	ND	400	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(25 - 121)
Phenol-d5	72	(24 - 113)
Nitrobenzene-d5	58	(23 - 120)
2-Fluorobiphenyl	53	(30 - 115)
2,4,6-Tribromophenol	56	(19 - 122)
Terphenyl-d14	58	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7720

GC/MS Semivolatiles

Lot-Sample #...: H8F130132-010 **Work Order #...:** CJ1D1103 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	ND	410	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7720

GC/MS Semivolatiles

Lot-Sample #...: H8F130132-010 **Work Order #...:** CJ1D1103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	410	ug/kg
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(25 - 121)
Phenol-d5	68	(24 - 113)
Nitrobenzene-d5	57	(23 - 120)
2-Fluorobiphenyl	55	(30 - 115)
2,4,6-Tribromophenol	59	(19 - 122)
Terphenyl-d14	62	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7780

GC/MS Semivolatiles

Lot-Sample #...: H8F130132-011 **Work Order #...:** CJ1D2103 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	**53 J**	**1900**	**ug/kg**
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	400	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7780

GC/MS Semivolatiles

Lot-Sample #...: H8F130132-011 **Work Order #...:** CJ1D2103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	**190 J**	**400**	**ug/kg**
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	400	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	ND	400	ug/kg
Benzo(k)fluoranthene	ND	400	ug/kg
Benzo(a)pyrene	ND	400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	ND	400	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
Phenol-d5	66	(24 - 113)
Nitrobenzene-d5	52	(23 - 120)
2-Fluorobiphenyl	51	(30 - 115)
2,4,6-Tribromophenol	54	(19 - 122)
Terphenyl-d14	56	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7920

GC/MS Semivolatiles

Lot-Sample #...: H8F130132-012 **Work Order #...:** CJ1D3103 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 8.9 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	360	ug/kg
bis(2-Chloroethyl) ether	ND	360	ug/kg
2-Chlorophenol	ND	360	ug/kg
1,3-Dichlorobenzene	ND	360	ug/kg
1,4-Dichlorobenzene	ND	360	ug/kg
1,2-Dichlorobenzene	ND	360	ug/kg
2-Methylphenol	ND	360	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	360	ug/kg
4-Methylphenol	ND	360	ug/kg
N-Nitrosodi-n-propylamine	ND	360	ug/kg
Hexachloroethane	ND	360	ug/kg
Nitrobenzene	ND	360	ug/kg
Isophorone	ND	360	ug/kg
2-Nitrophenol	ND	360	ug/kg
2,4-Dimethylphenol	ND	360	ug/kg
bis(2-Chloroethoxy) methane	ND	360	ug/kg
2,4-Dichlorophenol	ND	360	ug/kg
1,2,4-Trichlorobenzene	ND	360	ug/kg
Naphthalene	ND	360	ug/kg
4-Chloroaniline	ND	360	ug/kg
Hexachlorobutadiene	ND	360	ug/kg
4-Chloro-3-methylphenol	ND	360	ug/kg
2-Methylnaphthalene	ND	360	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	360	ug/kg
2,4,5-Trichlorophenol	ND	360	ug/kg
2-Chloronaphthalene	ND	360	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	360	ug/kg
Acenaphthylene	ND	360	ug/kg
2,6-Dinitrotoluene	ND	360	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	360	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	360	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7920

GC/MS Semivolatiles

Lot-Sample #...: H8F130132-012 **Work Order #...:** CJ1D3103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	360	ug/kg
Diethyl phthalate	ND	360	ug/kg
4-Chlorophenyl phenyl ether	ND	360	ug/kg
Fluorene	ND	360	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	360	ug/kg
4-Bromophenyl phenyl ether	ND	360	ug/kg
Hexachlorobenzene	ND	360	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	360	ug/kg
Anthracene	ND	360	ug/kg
Carbazole	ND	360	ug/kg
Di-n-butyl phthalate	ND	360	ug/kg
Fluoranthene	ND	360	ug/kg
Pyrene	ND	360	ug/kg
Butyl benzyl phthalate	ND	360	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	360	ug/kg
Chrysene	ND	360	ug/kg
bis(2-Ethylhexyl) phthalate	ND	360	ug/kg
Di-n-octyl phthalate	ND	360	ug/kg
Benzo(b)fluoranthene	ND	360	ug/kg
Benzo(k)fluoranthene	ND	360	ug/kg
Benzo(a)pyrene	ND	360	ug/kg
Indeno(1,2,3-cd)pyrene	ND	360	ug/kg
Dibenz(a,h)anthracene	ND	360	ug/kg
Benzo(ghi)perylene	ND	360	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
Phenol-d5	70	(24 - 113)
Nitrobenzene-d5	60	(23 - 120)
2-Fluorobiphenyl	57	(30 - 115)
2,4,6-Tribromophenol	59	(19 - 122)
Terphenyl-d14	66	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8380

GC/MS Semivolatiles

Lot-Sample #...: H8F160180-001 **Work Order #...:** CJ33N103 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	380	ug/kg
bis(2-Chloroethyl) ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichlorobenzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg
2,4,5-Trichlorophenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	ND	380	ug/kg
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	380	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8380

GC/MS Semivolatiles

Lot-Sample #...: H8F160180-001 **Work Order #...:** CJ33N103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	380	ug/kg
Anthracene	ND	380	ug/kg
Carbazole	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	ND	380	ug/kg
Pyrene	ND	380	ug/kg
Butyl benzyl phthalate	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	380	ug/kg
Chrysene	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	ND	380	ug/kg
Benzo(k)fluoranthene	ND	380	ug/kg
Benzo(a)pyrene	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg
Dibenz(a,h)anthracene	ND	380	ug/kg
Benzo(ghi)perylene	ND	380	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(25 - 121)
Phenol-d5	67	(24 - 113)
Nitrobenzene-d5	59	(23 - 120)
2-Fluorobiphenyl	59	(30 - 115)
2,4,6-Tribromophenol	60	(19 - 122)
Terphenyl-d14	64	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8550

GC/MS Semivolatiles

Lot-Sample #...: H8F160180-002 **Work Order #...:** CJ33P103 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	ND	410	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8550

GC/MS Semivolatiles

Lot-Sample #...: H8F160180-002 **Work Order #...:** CJ33P103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	410	ug/kg
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(25 - 121)
Phenol-d5	73	(24 - 113)
Nitrobenzene-d5	60	(23 - 120)
2-Fluorobiphenyl	58	(30 - 115)
2,4,6-Tribromophenol	62	(19 - 122)
Terphenyl-d14	67	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8580

GC/MS Semivolatiles

Lot-Sample #...: H8F160180-003 **Work Order #...:** CJ33Q103 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	380	ug/kg
bis(2-Chloroethyl) ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichlorobenzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg
2,4,5-Trichlorophenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	**41 J**	**380**	**ug/kg**
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	380	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8580

GC/MS Semivolatiles

Lot-Sample #...: H8F160180-003 **Work Order #...:** CJ33Q103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	**360 J**	**380**	**ug/kg**
Anthracene	**230 J**	**380**	**ug/kg**
Carbazole	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	**760**	**380**	**ug/kg**
Pyrene	**550**	**380**	**ug/kg**
Butyl benzyl phthalate	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	**400**	**380**	**ug/kg**
Chrysene	**420**	**380**	**ug/kg**
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	**300 J**	**380**	**ug/kg**
Benzo(k)fluoranthene	**350 J**	**380**	**ug/kg**
Benzo(a)pyrene	**390**	**380**	**ug/kg**
Indeno(1,2,3-cd)pyrene	**230 J**	**380**	**ug/kg**
Dibenz(a,h)anthracene	ND	380	ug/kg
Benzo(ghi)perylene	**220 J**	**380**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	47	(25 - 121)
Phenol-d5	53	(24 - 113)
Nitrobenzene-d5	47	(23 - 120)
2-Fluorobiphenyl	53	(30 - 115)
2,4,6-Tribromophenol	64	(19 - 122)
Terphenyl-d14	64	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB030 **Work Order #...:** CJ36K101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F170000-131

Prep Date.....: 06/17/98
Analysis Date..: 07/08/98 **Prep Batch #...:** 8168131
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB030 **Work Order #...:** CJ36K101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(25 - 121)
Phenol-d5	74	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
2-Fluorobiphenyl	63	(30 - 115)
2,4,6-Tribromophenol	51	(19 - 122)
Terphenyl-d14	68	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB030 **Work Order #...:** CJ0TG106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-005 CJ0TG107-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1 **% Moisture.....:** 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**67**	**(23 - 115)**			**SW846 8270B**
	76	**(23 - 115)**	**13**	**(0-41)**	**SW846 8270B**
2-Chlorophenol	**64**	**(20 - 118)**			**SW846 8270B**
	72	**(20 - 118)**	**12**	**(0-42)**	**SW846 8270B**
1,4-Dichlorobenzene	**52**	**(16 - 116)**			**SW846 8270B**
	58	**(16 - 116)**	**10**	**(0-43)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**60**	**(12 - 126)**			**SW846 8270B**
	71	**(12 - 126)**	**16**	**(0-42)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**54**	**(19 - 124)**			**SW846 8270B**
	60	**(19 - 124)**	**12**	**(0-46)**	**SW846 8270B**
4-Chloro-3-methylphenol	**63**	**(28 - 119)**			**SW846 8270B**
	74	**(28 - 119)**	**16**	**(0-35)**	**SW846 8270B**
Acenaphthene	**56**	**(23 - 125)**			**SW846 8270B**
	65	**(23 - 125)**	**15**	**(0-40)**	**SW846 8270B**
4-Nitrophenol	**60**	**(15 - 130)**			**SW846 8270B**
	73	**(15 - 130)**	**19**	**(0-54)**	**SW846 8270B**
2,4-Dinitrotoluene	**63**	**(26 - 122)**			**SW846 8270B**
	73	**(26 - 122)**	**15**	**(0-32)**	**SW846 8270B**
Pentachlorophenol	**59**	**(10 - 134)**			**SW846 8270B**
	71	**(10 - 134)**	**18**	**(0-53)**	**SW846 8270B**
Pyrene	**63**	**(28 - 128)**			**SW846 8270B**
	74	**(28 - 128)**	**17**	**(0-42)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
	63	(25 - 121)
Phenol-d5	63	(24 - 113)
	72	(24 - 113)
Nitrobenzene-d5	52	(23 - 120)
	58	(23 - 120)
2-Fluorobiphenyl	50	(30 - 115)
	57	(30 - 115)
2,4,6-Tribromophenol	54	(19 - 122)
	63	(19 - 122)
Terphenyl-d14	55	(20 - 138)
	64	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB030 **Work Order #...:** CJ36K102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F170000-131
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**67**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**65**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**66**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**57**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**77**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**65**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**68**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**57**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**80**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**77**	**(17 - 117)**	**SW846 8270B**
Pyrene	**74**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
Phenol-d5	67	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
2-Fluorobiphenyl	68	(30 - 115)
2,4,6-Tribromophenol	47	(19 - 122)
Terphenyl-d14	73	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7700

GC Semivolatiles

Lot-Sample #...: H8F130132-009 **Work Order #...:** CJ1D0104 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(40 - 134)
Decachlorobiphenyl	87	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7720

GC Semivolatiles

Lot-Sample #...: H8F130132-010 **Work Order #...:** CJ1D1104 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(40 - 134)
Decachlorobiphenyl	75	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7780

GC Semivolatiles

Lot-Sample #...: H8F130132-011 **Work Order #...:** CJ1D2104 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(40 - 134)
Decachlorobiphenyl	85	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7920

GC Semivolatiles

Lot-Sample #...:	H8F130132-012	**Work Order #...:**	CJ1D3104	**Matrix.....:**	SOLID
Date Sampled...:	06/12/98	**Date Received..:**	06/13/98		
Prep Date.....:	06/17/98	**Analysis Date..:**	07/08/98		
Prep Batch #...:	8168122				
Dilution Factor:	1				
% Moisture.....:	8.9	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	36	ug/kg
Aroclor 1221	ND	36	ug/kg
Aroclor 1232	ND	36	ug/kg
Aroclor 1242	ND	36	ug/kg
Aroclor 1248	ND	36	ug/kg
Aroclor 1254	ND	36	ug/kg
Aroclor 1260	ND	36	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	75	(40 - 134)
Decachlorobiphenyl	79	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8380

GC Semivolatiles

Lot-Sample #...:	H8F160180-001	**Work Order #...:**	CJ33N104	**Matrix.....:**	SOLID
Date Sampled...:	06/15/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/17/98	**Analysis Date..:**	07/08/98		
Prep Batch #...:	8168122				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	ND	38	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	174 *	(40 - 134)
Decachlorobiphenyl	127	(38 - 174)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8550

GC Semivolatiles

Lot-Sample #...: H8F160180-002 **Work Order #...:** CJ33P104 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(40 - 134)
Decachlorobiphenyl	89	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8580

GC Semivolatiles

Lot-Sample #...: H8F160180-003 **Work Order #...:** CJ33Q104 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	ND	38	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(40 - 134)
Decachlorobiphenyl	84	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB030 **Work Order #...:** CJ367101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F170000-122

Prep Date.....: 06/17/98
Analysis Date..: 07/07/98 **Prep Batch #...:** 8168122
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(40 - 134)
Decachlorobiphenyl	76	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H8F120201 **Work Order #...:** CJ0TA109-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-001 CJ0TA10A-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**99**	**(52 - 144)**			**SW846 8081**
	100	**(52 - 144)**	**0.63**	**(0-25)**	**SW846 8081**
Aroclor 1260	**94**	**(45 - 143)**			**SW846 8081**
	94	**(45 - 143)**	**0.18**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(40 - 134)
	84	(40 - 134)
Decachlorobiphenyl	87	(38 - 174)
	91	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB030 **Work Order #...:** CJ367102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F170000-122
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**92**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**83**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(40 - 134)
Decachlorobiphenyl	85	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7680

HPLC

Lot-Sample #...: H8F130132-001 **Work Order #...:** CJ1CM102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	96	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7690

HPLC

Lot-Sample #...: H8F130132-002 **Work Order #...:** CJ1CN102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7700

HPLC

Lot-Sample #...: H8F130132-009 **Work Order #...:** CJ1D0105 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	103	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7720

HPLC

Lot-Sample #...: H8F130132-010 **Work Order #...:** CJ1D1105 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7730

HPLC

Lot-Sample #...: H8F130132-003 **Work Order #...:** CJ1CQ102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7740

HPLC

Lot-Sample #...: H8F130132-004 **Work Order #...:** CJ1CR102 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	124	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7760

HPLC

Lot-Sample #...: H8F130132-005 **Work Order #...:** CJ1CT102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	123	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7770

HPLC

Lot-Sample #...: H8F130132-006 **Work Order #...:** CJ1CV102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	119	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7780

HPLC

Lot-Sample #...: H8F130132-011 **Work Order #...:** CJ1D2105 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8169175
Dilution Factor: 2
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.50	mg/kg
1,3-Dinitrobenzene	ND	0.50	mg/kg
2,4-Dinitrotoluene	ND	0.50	mg/kg
2,6-Dinitrotoluene	ND	0.50	mg/kg
HMX	ND	1.0	mg/kg
Nitrobenzene	ND	0.50	mg/kg
2-Nitrotoluene	ND	0.50	mg/kg
3-Nitrotoluene	ND	0.50	mg/kg
RDX	ND	1.0	mg/kg
Tetryl	ND	1.3	mg/kg
1,3,5-Trinitrobenzene	ND	0.50	mg/kg
2,4,6-Trinitrotoluene	ND	0.50	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	131 *	(72 - 129)

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7920

HPLC

Lot-Sample #...: H8F130132-012 **Work Order #...:** CJ1D3105 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 8.9 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	95	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7930

HPLC

Lot-Sample #...: H8F130132-007 **Work Order #...:** CJ1CW102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	87	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7940

HPLC

Lot-Sample #...: H8F130132-008 **Work Order #...:** CJ1CX102 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/26/98
Prep Batch #...: 8169175
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8380

HPLC

Lot-Sample #...: H8F160180-001 **Work Order #...:** CJ33N105 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	121	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8390

HPLC

Lot-Sample #...: H8F160180-004 **Work Order #...:** CJ33R102 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	122	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8400

HPLC

Lot-Sample #...: H8F160180-005 **Work Order #...:** CJ33T102 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	125	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8540

HPLC

Lot-Sample #...: H8F160180-006 **Work Order #...:** CJ33V102 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	113	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8550

HPLC

Lot-Sample #...: H8F160180-002 **Work Order #...:** CJ33P105 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	121	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8560

HPLC

Lot-Sample #...: H8F160180-007 **Work Order #...:** CJ33W102 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	123	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8580

HPLC

Lot-Sample #...: H8F160180-003 **Work Order #...:** CJ33Q105 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	89	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8590

HPLC

Lot-Sample #...: H8F160180-008 **Work Order #...:** CJ33X102 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	122	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8600

HPLC

Lot-Sample #...: H8F160180-009 **Work Order #...:** CJ340102 **Matrix.....:** SOLID
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8174134
Dilution Factor: 5
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	1.2	mg/kg
1,3-Dinitrobenzene	ND	1.2	mg/kg
2,4-Dinitrotoluene	**6.3**	**1.2**	**mg/kg**
2,6-Dinitrotoluene	ND	1.2	mg/kg
HMX	ND	2.5	mg/kg
Nitrobenzene	ND	1.2	mg/kg
2-Nitrotoluene	ND	1.2	mg/kg
3-Nitrotoluene	ND	1.2	mg/kg
RDX	ND	2.5	mg/kg
Tetryl	ND	3.2	mg/kg
1,3,5-Trinitrobenzene	**4.4**	**1.2**	**mg/kg**
2,4,6-Trinitrotoluene	ND	1.2	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	112	(72 - 129)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB030 **Work Order #...:** CJ4E5101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F180000-175

Prep Date.....: 06/18/98
Analysis Date..: 06/25/98 **Prep Batch #...:** 8169175
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB030 **Work Order #...:** CJ0TG10D-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F120201-005 CJ0TG10E-MSD
Date Sampled...: 06/11/98 **Date Received..:** 06/12/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1 **% Moisture.....:** 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	93	(48 - 125)			SW846 8330
	79 p	(48 - 125)	16	(0-15)	SW846 8330
RDX	78	(61 - 127)			SW846 8330
	67	(61 - 127)	15	(0-15)	SW846 8330
1,3,5-Trinitrobenzene	101	(74 - 126)			SW846 8330
	89	(74 - 126)	13	(0-15)	SW846 8330
1,3-Dinitrobenzene	93	(71 - 126)			SW846 8330
	82	(71 - 126)	13	(0-15)	SW846 8330
Tetryl	84	(32 - 143)			SW846 8330
	76	(32 - 143)	11	(0-26)	SW846 8330
Nitrobenzene	93	(76 - 122)			SW846 8330
	81	(76 - 122)	13	(0-15)	SW846 8330
2,4,6-Trinitrotoluene	90	(69 - 132)			SW846 8330
	79	(69 - 132)	13	(0-15)	SW846 8330
4-Amino-2,6-dinitrotoluen	95	(67 - 127)			SW846 8330
	84	(67 - 127)	12	(0-15)	SW846 8330
2,6-Dinitrotoluene	97	(75 - 122)			SW846 8330
	85	(75 - 122)	13	(0-15)	SW846 8330
2,4-Dinitrotoluene	96	(75 - 124)			SW846 8330
	84	(75 - 124)	13	(0-15)	SW846 8330
2-Nitrotoluene	98	(77 - 125)			SW846 8330
	86	(77 - 125)	13	(0-15)	SW846 8330
3-Nitrotoluene	99	(76 - 121)			SW846 8330
	87	(76 - 121)	13	(0-15)	SW846 8330
2-Amino-4,6-dinitrotoluen	91	(76 - 120)			SW846 8330
	80	(76 - 120)	13	(0-15)	SW846 8330
4-Nitrotoluene	99	(76 - 122)			SW846 8330
	86	(76 - 122)	13	(0-25)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(72 - 129)
	93	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB030 **Work Order #...:** CJ4E5102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F180000-175
Prep Date.....: 06/18/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8169175
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**106**	**(65 - 117)**	**SW846 8330**
RDX	**105**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**116**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**107**	**(75 - 123)**	**SW846 8330**
Tetryl	**93**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**104**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**99**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**109**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**108**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**107**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**107**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**108**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**107**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**108**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	120	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: PB030 **Work Order #...:** CJ7W4101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F230000-134

Prep Date.....: 06/23/98
Analysis Date..: 07/01/98 **Prep Batch #...:** 8174134
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB030 **Work Order #...:** CJ1W910U-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F150116-001 CJ1W910V-MSD
Date Sampled...: 06/12/98 **Date Received..:** 06/15/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8174134
Dilution Factor: 1 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	104	(48 - 125)			SW846 8330
	102	(48 - 125)	2.0	(0-15)	SW846 8330
RDX	109	(61 - 127)			SW846 8330
	107	(61 - 127)	2.0	(0-15)	SW846 8330
1,3,5-Trinitrobenzene	117	(74 - 126)			SW846 8330
	114	(74 - 126)	2.6	(0-15)	SW846 8330
1,3-Dinitrobenzene	111	(71 - 126)			SW846 8330
	108	(71 - 126)	2.8	(0-15)	SW846 8330
Tetryl	78	(32 - 143)			SW846 8330
	77	(32 - 143)	1.1	(0-26)	SW846 8330
Nitrobenzene	108	(76 - 122)			SW846 8330
	106	(76 - 122)	2.1	(0-15)	SW846 8330
2,4,6-Trinitrotoluene	106	(69 - 132)			SW846 8330
	104	(69 - 132)	2.1	(0-15)	SW846 8330
4-Amino-2,6-dinitrotoluen	101	(67 - 127)			SW846 8330
	102	(67 - 127)	0.95	(0-15)	SW846 8330
2,6-Dinitrotoluene	114	(75 - 122)			SW846 8330
	112	(75 - 122)	2.2	(0-15)	SW846 8330
2,4-Dinitrotoluene	113	(75 - 124)			SW846 8330
	110	(75 - 124)	3.2	(0-15)	SW846 8330
2-Nitrotoluene	110	(77 - 125)			SW846 8330
	109	(77 - 125)	1.2	(0-15)	SW846 8330
3-Nitrotoluene	116	(76 - 121)			SW846 8330
	114	(76 - 121)	1.1	(0-15)	SW846 8330
2-Amino-4,6-dinitrotoluen	106	(76 - 120)			SW846 8330
	106	(76 - 120)	0.0	(0-15)	SW846 8330
4-Nitrotoluene	111	(76 - 122)			SW846 8330
	109	(76 - 122)	1.9	(0-25)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	115	(72 - 129)
	110	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB030 **Work Order #...:** CJ7W4102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F230000-134
Prep Date.....: 06/23/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8174134
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**96**	**(65 - 117)**	**SW846 8330**
RDX	**109**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**112**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**105**	**(75 - 123)**	**SW846 8330**
Tetryl	**72**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**104**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**87**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**109**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**95**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**100**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**99**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**102**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**105**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**101**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7680

TOTAL Metals

Lot-Sample #...: H8F130132-001 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.037	mg/kg	SW846 7471A	06/30/98	CJ1CM10T
		Dilution Factor: 1		Analysis Time..: 13:28		
Prep Batch #...: 8181151						
Aluminum	7760	22.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM103
		Dilution Factor: 1		Analysis Time..: 14:18		
Arsenic	3.4	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CM10N
		Dilution Factor: 1		Analysis Time..: 16:52		
Lead	4.1	0.33	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CM10P
		Dilution Factor: 1		Analysis Time..: 16:52		
Antimony	ND	6.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM104
		Dilution Factor: 1		Analysis Time..: 14:18		
Barium	ND	22.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM105
		Dilution Factor: 1		Analysis Time..: 14:18		
Selenium	ND	0.56	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CM10Q
		Dilution Factor: 1		Analysis Time..: 16:52		
Beryllium	ND	0.56	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM106
		Dilution Factor: 1		Analysis Time..: 14:18		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CM10R
		Dilution Factor: 1		Analysis Time..: 16:52		
Cadmium	ND	0.56	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM107
		Dilution Factor: 1		Analysis Time..: 14:18		
Calcium	ND	556	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM108
		Dilution Factor: 1		Analysis Time..: 14:18		
Chromium	9.4	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM109
		Dilution Factor: 1		Analysis Time..: 14:18		
Cobalt	ND	5.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10A
		Dilution Factor: 1		Analysis Time..: 14:18		
Copper	6.5	2.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10C
		Dilution Factor: 1		Analysis Time..: 14:18		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7680

TOTAL Metals

Lot-Sample #...: H8F130132-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	11200	11.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10D
		Dilution Factor: 1		Analysis Time..: 14:18		
Magnesium	938	556	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10E
		Dilution Factor: 1		Analysis Time..: 14:18		
Manganese	74.5	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10F
		Dilution Factor: 1		Analysis Time..: 14:18		
Nickel	8.4	4.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10G
		Dilution Factor: 1		Analysis Time..: 14:18		
Potassium	ND	556	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10H
		Dilution Factor: 1		Analysis Time..: 14:18		
Silver	ND	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10J
		Dilution Factor: 1		Analysis Time..: 14:18		
Sodium	ND	556	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10K
		Dilution Factor: 1		Analysis Time..: 14:18		
Vanadium	19.8	5.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10L
		Dilution Factor: 1		Analysis Time..: 14:18		
Zinc	23.1	2.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CM10M
		Dilution Factor: 1		Analysis Time..: 14:18		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7690

TOTAL Metals

Lot-Sample #...: H8F130132-002 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ1CN10T
		Dilution Factor: 1		Analysis Time..: 13:35		
Prep Batch #...: 8181151						
Aluminum	6380	24.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN103
		Dilution Factor: 1		Analysis Time..: 14:48		
Arsenic	5.3	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CN10N
		Dilution Factor: 1		Analysis Time..: 17:25		
Lead	5.1	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CN10P
		Dilution Factor: 1		Analysis Time..: 17:25		
Antimony	ND	7.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN104
		Dilution Factor: 1		Analysis Time..: 14:48		
Barium	29.2	24.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN105
		Dilution Factor: 1		Analysis Time..: 14:48		
Selenium	ND	0.60	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CN10Q
		Dilution Factor: 1		Analysis Time..: 17:25		
Beryllium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN106
		Dilution Factor: 1		Analysis Time..: 14:48		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CN10R
		Dilution Factor: 1		Analysis Time..: 17:25		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN107
		Dilution Factor: 1		Analysis Time..: 14:48		
Calcium	2100	602	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN108
		Dilution Factor: 1		Analysis Time..: 14:48		
Chromium	11.3	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN109
		Dilution Factor: 1		Analysis Time..: 14:48		
Cobalt	7.0	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10A
		Dilution Factor: 1		Analysis Time..: 14:48		
Copper	13.7	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10C
		Dilution Factor: 1		Analysis Time..: 14:48		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7690

TOTAL Metals

Lot-Sample #...: H8F130132-002 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	15400	12.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10D
		Dilution Factor: 1		Analysis Time..: 14:48		
Magnesium	1560	602	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10E
		Dilution Factor: 1		Analysis Time..: 14:48		
Manganese	313	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10F
		Dilution Factor: 1		Analysis Time..: 14:48		
Nickel	20.2	4.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10G
		Dilution Factor: 1		Analysis Time..: 14:48		
Potassium	ND	602	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10H
		Dilution Factor: 1		Analysis Time..: 14:48		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10J
		Dilution Factor: 1		Analysis Time..: 14:48		
Sodium	ND	602	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10K
		Dilution Factor: 1		Analysis Time..: 14:48		
Vanadium	19.1	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10L
		Dilution Factor: 1		Analysis Time..: 14:48		
Zinc	40.6	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CN10M
		Dilution Factor: 1		Analysis Time..: 14:48		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7700

TOTAL Metals

Lot-Sample #...: H8F130132-009 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ1D010W
		Dilution Factor: 1		Analysis Time..: 13:56		
Prep Batch #...: 8181151						
Aluminum	5930	24.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D0106
		Dilution Factor: 1		Analysis Time..: 15:22		
Arsenic	4.1	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D010R
		Dilution Factor: 1		Analysis Time..: 18:04		
Lead	7.7	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D010T
		Dilution Factor: 1		Analysis Time..: 18:04		
Antimony	ND	7.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D0107
		Dilution Factor: 1		Analysis Time..: 15:22		
Barium	42.4	24.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D0108
		Dilution Factor: 1		Analysis Time..: 15:22		
Selenium	ND	0.60	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D010U
		Dilution Factor: 1		Analysis Time..: 18:04		
Beryllium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D0109
		Dilution Factor: 1		Analysis Time..: 15:22		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D010V
		Dilution Factor: 1		Analysis Time..: 18:04		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D010A
		Dilution Factor: 1		Analysis Time..: 15:22		
Calcium	67100	604	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D010C
		Dilution Factor: 1		Analysis Time..: 15:22		
Chromium	10.7	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D010D
		Dilution Factor: 1		Analysis Time..: 15:22		
Cobalt	7.2	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D010E
		Dilution Factor: 1		Analysis Time..: 15:22		
Copper	16.2	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D010F
		Dilution Factor: 1		Analysis Time..: 15:22		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7700

TOTAL Metals

Lot-Sample #...: H8F130132-009 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**13000**	**12.1**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1D010G**
		Dilution Factor: 1		Analysis Time..: 15:22		
Magnesium	**25300**	**604**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1D010H**
		Dilution Factor: 1		Analysis Time..: 15:22		
Manganese	**472**	**1.8**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1D010J**
		Dilution Factor: 1		Analysis Time..: 15:22		
Nickel	**19.4**	**4.8**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1D010K**
		Dilution Factor: 1		Analysis Time..: 15:22		
Potassium	**1330**	**604**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1D010L**
		Dilution Factor: 1		Analysis Time..: 15:22		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D010M
		Dilution Factor: 1		Analysis Time..: 15:22		
Sodium	ND	604	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D010N
		Dilution Factor: 1		Analysis Time..: 15:22		
Vanadium	**21.0**	**6.0**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1D010P**
		Dilution Factor: 1		Analysis Time..: 15:22		
Zinc	**43.7**	**2.4**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1D010Q**
		Dilution Factor: 1		Analysis Time..: 15:22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7720

TOTAL Metals

Lot-Sample #...: H8F130132-010 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/13/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	0.043	0.041	mg/kg	SW846 7471A	06/30/98	CJ1D110W
		Dilution Factor: 1		Analysis Time..: 13:58		
Prep Batch #...: 8181151						
Aluminum	12700	24.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D1106
		Dilution Factor: 1		Analysis Time..: 15:52		
Arsenic	7.4	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D110R
		Dilution Factor: 1		Analysis Time..: 18:32		
Lead	6.8	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D110T
		Dilution Factor: 1		Analysis Time..: 18:32		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D1107
		Dilution Factor: 1		Analysis Time..: 15:52		
Barium	49.6	24.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D1108
		Dilution Factor: 1		Analysis Time..: 15:52		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D110U
		Dilution Factor: 1		Analysis Time..: 18:32		
Beryllium	0.69	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D1109
		Dilution Factor: 1		Analysis Time..: 15:52		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D110V
		Dilution Factor: 1		Analysis Time..: 18:32		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110A
		Dilution Factor: 1		Analysis Time..: 15:52		
Calcium	3010	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110C
		Dilution Factor: 1		Analysis Time..: 15:52		
Chromium	20.2	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110D
		Dilution Factor: 1		Analysis Time..: 15:52		
Cobalt	8.3	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110E
		Dilution Factor: 1		Analysis Time..: 15:52		
Copper	14.7	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110F
		Dilution Factor: 1		Analysis Time..: 15:52		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7720

TOTAL Metals

Lot-Sample #...: H8F130132-010 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	22900	12.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110G
		Dilution Factor: 1		Analysis Time..: 15:52		
Magnesium	2310	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110H
		Dilution Factor: 1		Analysis Time..: 15:52		
Manganese	173	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110J
		Dilution Factor: 1		Analysis Time..: 15:52		
Nickel	20.5	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110K
		Dilution Factor: 1		Analysis Time..: 15:52		
Potassium	771	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110L
		Dilution Factor: 1		Analysis Time..: 15:52		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110M
		Dilution Factor: 1		Analysis Time..: 15:52		
Sodium	ND	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110N
		Dilution Factor: 1		Analysis Time..: 15:52		
Vanadium	35.2	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110P
		Dilution Factor: 1		Analysis Time..: 15:52		
Zinc	46.1	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D110Q
		Dilution Factor: 1		Analysis Time..: 15:52		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7780

TOTAL Metals

Lot-Sample #...: H8F130132-011 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ1D210W
		Dilution Factor: 1		Analysis Time..: 14:01		
Prep Batch #...: 8181151						
Aluminum	6010	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D2106
		Dilution Factor: 1		Analysis Time..: 15:57		
Arsenic	6.9	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D210R
		Dilution Factor: 1		Analysis Time..: 18:37		
Lead	8.1	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D210T
		Dilution Factor: 1		Analysis Time..: 18:37		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D2107
		Dilution Factor: 1		Analysis Time..: 15:57		
Barium	41.5	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D2108
		Dilution Factor: 1		Analysis Time..: 15:57		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D210U
		Dilution Factor: 1		Analysis Time..: 18:37		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D2109
		Dilution Factor: 1		Analysis Time..: 15:57		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D210V
		Dilution Factor: 1		Analysis Time..: 18:37		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210A
		Dilution Factor: 1		Analysis Time..: 15:57		
Calcium	67400	609	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210C
		Dilution Factor: 1		Analysis Time..: 15:57		
Chromium	11.6	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210D
		Dilution Factor: 1		Analysis Time..: 15:57		
Cobalt	9.0	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210E
		Dilution Factor: 1		Analysis Time..: 15:57		
Copper	19.3	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210F
		Dilution Factor: 1		Analysis Time..: 15:57		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7780

TOTAL Metals

Lot-Sample #...: H8F130132-011 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18300	12.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210G
		Dilution Factor: 1		Analysis Time..: 15:57		
Magnesium	20300	609	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210H
		Dilution Factor: 1		Analysis Time..: 15:57		
Manganese	467	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210J
		Dilution Factor: 1		Analysis Time..: 15:57		
Nickel	22.2	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210K
		Dilution Factor: 1		Analysis Time..: 15:57		
Potassium	1370	609	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210L
		Dilution Factor: 1		Analysis Time..: 15:57		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210M
		Dilution Factor: 1		Analysis Time..: 15:57		
Sodium	1030	609	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210N
		Dilution Factor: 1		Analysis Time..: 15:57		
Vanadium	19.3	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210P
		Dilution Factor: 1		Analysis Time..: 15:57		
Zinc	52.0	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D210Q
		Dilution Factor: 1		Analysis Time..: 15:57		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7920

TOTAL Metals

Lot-Sample #...: H8F130132-012 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 8.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.036	mg/kg	SW846 7471A	06/30/98	CJ1D310W
		Dilution Factor: 1		Analysis Time..: 14:03		
Prep Batch #...: 8181151						
Aluminum	2370	22.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D3106
		Dilution Factor: 1		Analysis Time..: 16:06		
Arsenic	14.1	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D310R
		Dilution Factor: 1		Analysis Time..: 18:43		
Lead	3.2	0.33	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D310T
		Dilution Factor: 1		Analysis Time..: 18:43		
Antimony	ND	6.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D3107
		Dilution Factor: 1		Analysis Time..: 16:06		
Barium	33.6	22.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D3108
		Dilution Factor: 1		Analysis Time..: 16:06		
Selenium	ND	0.55	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D310U
		Dilution Factor: 1		Analysis Time..: 18:43		
Beryllium	ND	0.55	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D3109
		Dilution Factor: 1		Analysis Time..: 16:06		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ1D310V
		Dilution Factor: 1		Analysis Time..: 18:43		
Cadmium	ND	0.55	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310A
		Dilution Factor: 1		Analysis Time..: 16:06		
Calcium	54000	549	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310C
		Dilution Factor: 1		Analysis Time..: 16:06		
Chromium	4.2	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310D
		Dilution Factor: 1		Analysis Time..: 16:06		
Cobalt	ND	5.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310E
		Dilution Factor: 1		Analysis Time..: 16:06		
Copper	10.6	2.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310F
		Dilution Factor: 1		Analysis Time..: 16:06		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7920

TOTAL Metals

Lot-Sample #...: H8F130132-012 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	15900	11.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310G
		Dilution Factor: 1		Analysis Time..: 16:06		
Magnesium	11500	549	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310H
		Dilution Factor: 1		Analysis Time..: 16:06		
Manganese	658	1.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310J
		Dilution Factor: 1		Analysis Time..: 16:06		
Nickel	11.6	4.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310K
		Dilution Factor: 1		Analysis Time..: 16:06		
Potassium	ND	549	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310L
		Dilution Factor: 1		Analysis Time..: 16:06		
Silver	ND	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310M
		Dilution Factor: 1		Analysis Time..: 16:06		
Sodium	ND	549	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310N
		Dilution Factor: 1		Analysis Time..: 16:06		
Vanadium	13.2	5.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310P
		Dilution Factor: 1		Analysis Time..: 16:06		
Zinc	26.8	2.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1D310Q
		Dilution Factor: 1		Analysis Time..: 16:06		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7730

TOTAL Metals

Lot-Sample #...: H8F130132-003 **Matrix.....:** SOLID
Date Sampled...: 06/11/98 **Date Received..:** 06/13/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ1CQ10T
		Dilution Factor: 1		Analysis Time..: 13:37		
Prep Batch #...: 8181151						
Aluminum	**9640**	**24.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CQ103**
		Dilution Factor: 1		Analysis Time..: 14:53		
Arsenic	**8.2**	**1.2**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ1CQ10N**
		Dilution Factor: 1		Analysis Time..: 17:31		
Lead	**6.5**	**0.36**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ1CQ10P**
		Dilution Factor: 1		Analysis Time..: 17:31		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ104
		Dilution Factor: 1		Analysis Time..: 14:53		
Barium	**39.0**	**24.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CQ105**
		Dilution Factor: 1		Analysis Time..: 14:53		
Selenium	ND	0.60	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CQ10Q
		Dilution Factor: 1		Analysis Time..: 17:31		
Beryllium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ106
		Dilution Factor: 1		Analysis Time..: 14:53		
Thallium	**ND**	**1.2**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ1CQ10R**
		Dilution Factor: 1		Analysis Time..: 17:31		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ107
		Dilution Factor: 1		Analysis Time..: 14:53		
Calcium	**4340**	**605**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CQ108**
		Dilution Factor: 1		Analysis Time..: 14:53		
Chromium	**17.4**	**1.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CQ109**
		Dilution Factor: 1		Analysis Time..: 14:53		
Cobalt	**8.4**	**6.0**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CQ10A**
		Dilution Factor: 1		Analysis Time..: 14:53		
Copper	**14.3**	**3.0**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CQ10C**
		Dilution Factor: 1		Analysis Time..: 14:53		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7730

TOTAL Metals

Lot-Sample #...: H8F130132-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	20100	12.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10D
		Dilution Factor: 1		Analysis Time..: 14:53		
Magnesium	2940	605	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10E
		Dilution Factor: 1		Analysis Time..: 14:53		
Manganese	275	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10F
		Dilution Factor: 1		Analysis Time..: 14:53		
Nickel	19.4	4.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10G
		Dilution Factor: 1		Analysis Time..: 14:53		
Potassium	713	605	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10H
		Dilution Factor: 1		Analysis Time..: 14:53		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10J
		Dilution Factor: 1		Analysis Time..: 14:53		
Sodium	ND	605	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10K
		Dilution Factor: 1		Analysis Time..: 14:53		
Vanadium	27.0	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10L
		Dilution Factor: 1		Analysis Time..: 14:53		
Zinc	41.2	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CQ10M
		Dilution Factor: 1		Analysis Time..: 14:53		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7740

TOTAL Metals

Lot-Sample #...: H8F130132-004 Matrix.....: SOLID
Date Sampled...: 06/11/98 Date Received..: 06/13/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ1CR10T
		Dilution Factor: 1		Analysis Time..: 13:39		
Prep Batch #...: 8181151						
Aluminum	8710	24.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR103
		Dilution Factor: 1		Analysis Time..: 14:58		
Arsenic	8.1	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CR10N
		Dilution Factor: 1		Analysis Time..: 17:36		
Lead	9.6	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CR10P
		Dilution Factor: 1		Analysis Time..: 17:36		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR104
		Dilution Factor: 1		Analysis Time..: 14:58		
Barium	64.8	24.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR105
		Dilution Factor: 1		Analysis Time..: 14:58		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CR10Q
		Dilution Factor: 1		Analysis Time..: 17:36		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR106
		Dilution Factor: 1		Analysis Time..: 14:58		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CR10R
		Dilution Factor: 1		Analysis Time..: 17:36		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR107
		Dilution Factor: 1		Analysis Time..: 14:58		
Calcium	53400	608	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR108
		Dilution Factor: 1		Analysis Time..: 14:58		
Chromium	15.9	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR109
		Dilution Factor: 1		Analysis Time..: 14:58		
Cobalt	10.3	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10A
		Dilution Factor: 1		Analysis Time..: 14:58		
Copper	21.1	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10C
		Dilution Factor: 1		Analysis Time..: 14:58		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7740

TOTAL Metals

Lot-Sample #...: H8F130132-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18700	12.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10D
		Dilution Factor: 1		Analysis Time..: 14:58		
Magnesium	21100	608	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10E
		Dilution Factor: 1		Analysis Time..: 14:58		
Manganese	506	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10F
		Dilution Factor: 1		Analysis Time..: 14:58		
Nickel	26.5	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10G
		Dilution Factor: 1		Analysis Time..: 14:58		
Potassium	1850	608	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10H
		Dilution Factor: 1		Analysis Time..: 14:58		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10J
		Dilution Factor: 1		Analysis Time..: 14:58		
Sodium	ND	608	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10K
		Dilution Factor: 1		Analysis Time..: 14:58		
Vanadium	25.2	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10L
		Dilution Factor: 1		Analysis Time..: 14:58		
Zinc	57.3	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CR10M
		Dilution Factor: 1		Analysis Time..: 14:58		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7760

TOTAL Metals

Lot-Sample #...: H8F130132-005 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/30/98	CJ1CT10T
		Dilution Factor: 1		Analysis Time..: 13:42		
Prep Batch #...: 8181151						
Aluminum	6680	23.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT103
		Dilution Factor: 1		Analysis Time..: 15:03		
Arsenic	5.8	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CT10N
		Dilution Factor: 1		Analysis Time..: 17:42		
Lead	5.5	0.35	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CT10P
		Dilution Factor: 1		Analysis Time..: 17:42		
Antimony	ND	6.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT104
		Dilution Factor: 1		Analysis Time..: 15:03		
Barium	34.9	23.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT105
		Dilution Factor: 1		Analysis Time..: 15:03		
Selenium	ND	0.58	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CT10Q
		Dilution Factor: 1		Analysis Time..: 17:42		
Beryllium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT106
		Dilution Factor: 1		Analysis Time..: 15:03		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CT10R
		Dilution Factor: 1		Analysis Time..: 17:42		
Cadmium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT107
		Dilution Factor: 1		Analysis Time..: 15:03		
Calcium	2880	577	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT108
		Dilution Factor: 1		Analysis Time..: 15:03		
Chromium	12.1	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT109
		Dilution Factor: 1		Analysis Time..: 15:03		
Cobalt	5.8	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10A
		Dilution Factor: 1		Analysis Time..: 15:03		
Copper	7.0	2.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10C
		Dilution Factor: 1		Analysis Time..: 15:03		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7760

TOTAL Metals

Lot-Sample #...: H8F130132-005 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	14700	11.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10D
		Dilution Factor: 1		Analysis Time..: 15:03		
Magnesium	1660	577	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10E
		Dilution Factor: 1		Analysis Time..: 15:03		
Manganese	93.2	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10F
		Dilution Factor: 1		Analysis Time..: 15:03		
Nickel	13.9	4.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10G
		Dilution Factor: 1		Analysis Time..: 15:03		
Potassium	ND	577	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10H
		Dilution Factor: 1		Analysis Time..: 15:03		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10J
		Dilution Factor: 1		Analysis Time..: 15:03		
Sodium	ND	577	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10K
		Dilution Factor: 1		Analysis Time..: 15:03		
Vanadium	23.0	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10L
		Dilution Factor: 1		Analysis Time..: 15:03		
Zinc	30.4	2.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CT10M
		Dilution Factor: 1		Analysis Time..: 15:03		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7770

TOTAL Metals

Lot-Sample #...: H8F130132-006 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/30/98	CJ1CV10T
		Dilution Factor: 1		Analysis Time..: 13:44		
Prep Batch #...: 8181151						
Aluminum	**8870**	**24.8**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV103**
		Dilution Factor: 1		Analysis Time..: 15:08		
Arsenic	**15.9**	**2.5**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ1CV10N**
		Dilution Factor: 2		Analysis Time..: 17:47		
Lead	**13.4**	**0.74**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ1CV10P**
		Dilution Factor: 2		Analysis Time..: 17:47		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CV104
		Dilution Factor: 1		Analysis Time..: 15:08		
Barium	**176**	**24.8**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV105**
		Dilution Factor: 1		Analysis Time..: 15:08		
Selenium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CV10Q
		Dilution Factor: 2		Analysis Time..: 17:47		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CV106
		Dilution Factor: 1		Analysis Time..: 15:08		
Thallium	ND	2.5	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CV10R
		Dilution Factor: 2		Analysis Time..: 17:47		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CV107
		Dilution Factor: 1		Analysis Time..: 15:08		
Calcium	**53300**	**620**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV108**
		Dilution Factor: 1		Analysis Time..: 15:08		
Chromium	**5.2**	**1.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV109**
		Dilution Factor: 1		Analysis Time..: 15:08		
Cobalt	**26.7**	**6.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10A**
		Dilution Factor: 1		Analysis Time..: 15:08		
Copper	**24.6**	**3.1**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10C**
		Dilution Factor: 1		Analysis Time..: 15:08		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7770

TOTAL Metals

Lot-Sample #...: H8F130132-006 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**20500**	**12.4**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10D**
		Dilution Factor: 1		Analysis Time..: 15:08		
Magnesium	**17200**	**620**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10E**
		Dilution Factor: 1		Analysis Time..: 15:08		
Manganese	**2270**	**1.9**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10F**
		Dilution Factor: 1		Analysis Time..: 15:08		
Nickel	**56.1**	**5.0**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10G**
		Dilution Factor: 1		Analysis Time..: 15:08		
Potassium	**1380**	**620**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10H**
		Dilution Factor: 1		Analysis Time..: 15:08		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CV10J
		Dilution Factor: 1		Analysis Time..: 15:08		
Sodium	ND	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CV10K
		Dilution Factor: 1		Analysis Time..: 15:08		
Vanadium	**26.7**	**6.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10L**
		Dilution Factor: 1		Analysis Time..: 15:08		
Zinc	**59.7**	**2.5**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ1CV10M**
		Dilution Factor: 1		Analysis Time..: 15:08		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7930

TOTAL Metals

Lot-Sample #...: H8F130132-007 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ1CW10T
		Dilution Factor: 1		Analysis Time..: 13:51		
Prep Batch #...: 8181151						
Aluminum	7060	24.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW103
		Dilution Factor: 1		Analysis Time..: 15:13		
Arsenic	4.7	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CW10N
		Dilution Factor: 1		Analysis Time..: 17:53		
Lead	8.5	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CW10P
		Dilution Factor: 1		Analysis Time..: 17:53		
Antimony	ND	7.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW104
		Dilution Factor: 1		Analysis Time..: 15:13		
Barium	51.2	24.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW105
		Dilution Factor: 1		Analysis Time..: 15:13		
Selenium	ND	0.60	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CW10Q
		Dilution Factor: 1		Analysis Time..: 17:53		
Beryllium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW106
		Dilution Factor: 1		Analysis Time..: 15:13		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CW10R
		Dilution Factor: 1		Analysis Time..: 17:53		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW107
		Dilution Factor: 1		Analysis Time..: 15:13		
Calcium	56900	603	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW108
		Dilution Factor: 1		Analysis Time..: 15:13		
Chromium	12.5	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW109
		Dilution Factor: 1		Analysis Time..: 15:13		
Cobalt	8.7	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10A
		Dilution Factor: 1		Analysis Time..: 15:13		
Copper	19.1	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10C
		Dilution Factor: 1		Analysis Time..: 15:13		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7930

TOTAL Metals

Lot-Sample #...: H8F130132-007 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	16200	12.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10D
		Dilution Factor: 1		Analysis Time..: 15:13		
Magnesium	22500	603	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10E
		Dilution Factor: 1		Analysis Time..: 15:13		
Manganese	495	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10F
		Dilution Factor: 1		Analysis Time..: 15:13		
Nickel	22.8	4.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10G
		Dilution Factor: 1		Analysis Time..: 15:13		
Potassium	1490	603	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10H
		Dilution Factor: 1		Analysis Time..: 15:13		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10J
		Dilution Factor: 1		Analysis Time..: 15:13		
Sodium	ND	603	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10K
		Dilution Factor: 1		Analysis Time..: 15:13		
Vanadium	21.4	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10L
		Dilution Factor: 1		Analysis Time..: 15:13		
Zinc	52.8	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CW10M
		Dilution Factor: 1		Analysis Time..: 15:13		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7940

TOTAL Metals

Lot-Sample #...: H8F130132-008 Matrix.....: SOLID
Date Sampled...: 06/12/98 Date Received..: 06/13/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ1CX10T
		Dilution Factor: 1		Analysis Time..: 13:54		
Prep Batch #...: 8181151						
Aluminum	9590	24.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX103
		Dilution Factor: 1		Analysis Time..: 15:17		
Arsenic	4.9	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CX10N
		Dilution Factor: 1		Analysis Time..: 17:58		
Lead	9.4	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CX10P
		Dilution Factor: 1		Analysis Time..: 17:58		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX104
		Dilution Factor: 1		Analysis Time..: 15:17		
Barium	61.0	24.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX105
		Dilution Factor: 1		Analysis Time..: 15:17		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CX10Q
		Dilution Factor: 1		Analysis Time..: 17:58		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX106
		Dilution Factor: 1		Analysis Time..: 15:17		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ1CX10R
		Dilution Factor: 1		Analysis Time..: 17:58		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX107
		Dilution Factor: 1		Analysis Time..: 15:17		
Calcium	68000	607	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX108
		Dilution Factor: 1		Analysis Time..: 15:17		
Chromium	15.7	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX109
		Dilution Factor: 1		Analysis Time..: 15:17		
Cobalt	9.4	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10A
		Dilution Factor: 1		Analysis Time..: 15:17		
Copper	22.4	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10C
		Dilution Factor: 1		Analysis Time..: 15:17		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7940

TOTAL Metals

Lot-Sample #...: H8F130132-008 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	19900	12.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10D
		Dilution Factor: 1		Analysis Time..: 15:17		
Magnesium	21300	607	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10E
		Dilution Factor: 1		Analysis Time..: 15:17		
Manganese	512	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10F
		Dilution Factor: 1		Analysis Time..: 15:17		
Nickel	26.1	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10G
		Dilution Factor: 1		Analysis Time..: 15:17		
Potassium	2330	607	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10H
		Dilution Factor: 1		Analysis Time..: 15:17		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10J
		Dilution Factor: 1		Analysis Time..: 15:17		
Sodium	ND	607	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10K
		Dilution Factor: 1		Analysis Time..: 15:17		
Vanadium	26.2	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10L
		Dilution Factor: 1		Analysis Time..: 15:17		
Zinc	60.5	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ1CX10M
		Dilution Factor: 1		Analysis Time..: 15:17		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8380

TOTAL Metals

Lot-Sample #...: H8F160180-001 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/30/98	CJ33N10W
		Dilution Factor: 1		Analysis Time..: 14:05		
Prep Batch #...: 8181151						
Aluminum	4880	23.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N106
		Dilution Factor: 1		Analysis Time..: 16:11		
Arsenic	2.2	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33N10R
		Dilution Factor: 1		Analysis Time..: 18:48		
Lead	2.2	0.35	mg/kg	SW846 6010A	06/30-07/07/98	CJ33N10T
		Dilution Factor: 1		Analysis Time..: 18:48		
Antimony	ND	7.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N107
		Dilution Factor: 1		Analysis Time..: 16:11		
Barium	ND	23.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N108
		Dilution Factor: 1		Analysis Time..: 16:11		
Selenium	ND	0.58	mg/kg	SW846 6010A	06/30-07/07/98	CJ33N10U
		Dilution Factor: 1		Analysis Time..: 18:48		
Beryllium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N109
		Dilution Factor: 1		Analysis Time..: 16:11		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33N10V
		Dilution Factor: 1		Analysis Time..: 18:48		
Cadmium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10A
		Dilution Factor: 1		Analysis Time..: 16:11		
Calcium	1480	579	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10C
		Dilution Factor: 1		Analysis Time..: 16:11		
Chromium	6.8	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10D
		Dilution Factor: 1		Analysis Time..: 16:11		
Cobalt	ND	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10E
		Dilution Factor: 1		Analysis Time..: 16:11		
Copper	2.9	2.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10F
		Dilution Factor: 1		Analysis Time..: 16:11		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8380

TOTAL Metals

Lot-Sample #...: H8F160180-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	8460	11.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10G
		Dilution Factor: 1		Analysis Time..: 16:11		
Magnesium	ND	579	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10H
		Dilution Factor: 1		Analysis Time..: 16:11		
Manganese	107	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10J
		Dilution Factor: 1		Analysis Time..: 16:11		
Nickel	7.5	4.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10K
		Dilution Factor: 1		Analysis Time..: 16:11		
Potassium	ND	579	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10L
		Dilution Factor: 1		Analysis Time..: 16:11		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10M
		Dilution Factor: 1		Analysis Time..: 16:11		
Sodium	ND	579	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10N
		Dilution Factor: 1		Analysis Time..: 16:11		
Vanadium	15.8	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10P
		Dilution Factor: 1		Analysis Time..: 16:11		
Zinc	15.9	2.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ33N10Q
		Dilution Factor: 1		Analysis Time..: 16:11		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8390

TOTAL Metals

Lot-Sample #...: H8F160180-004 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.039	mg/kg	SW846 7471A	06/30/98	CJ33R10T
		Dilution Factor: 1		Analysis Time..: 14:12		
Prep Batch #...: 8181151						
Aluminum	8740	23.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R103
		Dilution Factor: 1		Analysis Time..: 16:27		
Arsenic	6.9	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33R10N
		Dilution Factor: 1		Analysis Time..: 19:05		
Lead	5.4	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ33R10P
		Dilution Factor: 1		Analysis Time..: 19:05		
Antimony	ND	7.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R104
		Dilution Factor: 1		Analysis Time..: 16:27		
Barium	43.8	23.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R105
		Dilution Factor: 1		Analysis Time..: 16:27		
Selenium	ND	0.59	mg/kg	SW846 6010A	06/30-07/07/98	CJ33R10Q
		Dilution Factor: 1		Analysis Time..: 19:05		
Beryllium	ND	0.59	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R106
		Dilution Factor: 1		Analysis Time..: 16:27		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33R10R
		Dilution Factor: 1		Analysis Time..: 19:05		
Cadmium	ND	0.59	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R107
		Dilution Factor: 1		Analysis Time..: 16:27		
Calcium	1810	595	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R108
		Dilution Factor: 1		Analysis Time..: 16:27		
Chromium	17.4	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R109
		Dilution Factor: 1		Analysis Time..: 16:27		
Cobalt	7.4	5.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10A
		Dilution Factor: 1		Analysis Time..: 16:27		
Copper	10.4	3.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10C
		Dilution Factor: 1		Analysis Time..: 16:27		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8390

TOTAL Metals

Lot-Sample #...: H8F160180-004 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	22000	11.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10D
		Dilution Factor: 1		Analysis Time..: 16:27		
Magnesium	1810	595	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10E
		Dilution Factor: 1		Analysis Time..: 16:27		
Manganese	231	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10F
		Dilution Factor: 1		Analysis Time..: 16:27		
Nickel	17.0	4.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10G
		Dilution Factor: 1		Analysis Time..: 16:27		
Potassium	643	595	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10H
		Dilution Factor: 1		Analysis Time..: 16:27		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10J
		Dilution Factor: 1		Analysis Time..: 16:27		
Sodium	ND	595	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10K
		Dilution Factor: 1		Analysis Time..: 16:27		
Vanadium	30.0	5.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10L
		Dilution Factor: 1		Analysis Time..: 16:27		
Zinc	37.8	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ33R10M
		Dilution Factor: 1		Analysis Time..: 16:27		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8400

TOTAL Metals

Lot-Sample #...: H8F160180-005 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/30/98	CJ33T10T
		Dilution Factor: 1		Analysis Time..: 14:19		
Prep Batch #...: 8181151						
Aluminum	5570	23.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T103
		Dilution Factor: 1		Analysis Time..: 16:32		
Arsenic	4.0	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33T10N
		Dilution Factor: 1		Analysis Time..: 19:10		
Lead	4.4	0.35	mg/kg	SW846 6010A	06/30-07/07/98	CJ33T10P
		Dilution Factor: 1		Analysis Time..: 19:10		
Antimony	ND	6.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T104
		Dilution Factor: 1		Analysis Time..: 16:32		
Barium	ND	23.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T105
		Dilution Factor: 1		Analysis Time..: 16:32		
Selenium	ND	0.58	mg/kg	SW846 6010A	06/30-07/07/98	CJ33T10Q
		Dilution Factor: 1		Analysis Time..: 19:10		
Beryllium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T106
		Dilution Factor: 1		Analysis Time..: 16:32		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33T10R
		Dilution Factor: 1		Analysis Time..: 19:10		
Cadmium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T107
		Dilution Factor: 1		Analysis Time..: 16:32		
Calcium	1460	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T108
		Dilution Factor: 1		Analysis Time..: 16:32		
Chromium	7.5	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T109
		Dilution Factor: 1		Analysis Time..: 16:32		
Cobalt	ND	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10A
		Dilution Factor: 1		Analysis Time..: 16:32		
Copper	6.9	2.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10C
		Dilution Factor: 1		Analysis Time..: 16:32		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8400

TOTAL Metals

Lot-Sample #...: H8F160180-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	10000	11.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10D
		Dilution Factor: 1		Analysis Time..: 16:32		
Magnesium	832	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10E
		Dilution Factor: 1		Analysis Time..: 16:32		
Manganese	215	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10F
		Dilution Factor: 1		Analysis Time..: 16:32		
Nickel	10.8	4.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10G
		Dilution Factor: 1		Analysis Time..: 16:32		
Potassium	ND	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10H
		Dilution Factor: 1		Analysis Time..: 16:32		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10J
		Dilution Factor: 1		Analysis Time..: 16:32		
Sodium	ND	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10K
		Dilution Factor: 1		Analysis Time..: 16:32		
Vanadium	17.8	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10L
		Dilution Factor: 1		Analysis Time..: 16:32		
Zinc	26.5	2.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ33T10M
		Dilution Factor: 1		Analysis Time..: 16:32		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8540

TOTAL Metals

Lot-Sample #...: H8F160180-006 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.037	mg/kg	SW846 7471A	06/30/98	CJ33V10T
		Dilution Factor: 1		Analysis Time..: 14:22		
Prep Batch #...: 8181151						
Aluminum	4720	22.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V103
		Dilution Factor: 1		Analysis Time..: 16:37		
Arsenic	2.0	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ33V10N
		Dilution Factor: 1		Analysis Time..: 19:16		
Lead	2.9	0.34	mg/kg	SW846 6010A	06/30-07/07/98	CJ33V10P
		Dilution Factor: 1		Analysis Time..: 19:16		
Antimony	ND	6.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V104
		Dilution Factor: 1		Analysis Time..: 16:37		
Barium	24.8	22.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V105
		Dilution Factor: 1		Analysis Time..: 16:37		
Selenium	ND	0.56	mg/kg	SW846 6010A	06/30-07/07/98	CJ33V10Q
		Dilution Factor: 1		Analysis Time..: 19:16		
Beryllium	ND	0.56	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V106
		Dilution Factor: 1		Analysis Time..: 16:37		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ33V10R
		Dilution Factor: 1		Analysis Time..: 19:16		
Cadmium	ND	0.56	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V107
		Dilution Factor: 1		Analysis Time..: 16:37		
Calcium	757	559	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V108
		Dilution Factor: 1		Analysis Time..: 16:37		
Chromium	5.4	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V109
		Dilution Factor: 1		Analysis Time..: 16:37		
Cobalt	ND	5.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10A
		Dilution Factor: 1		Analysis Time..: 16:37		
Copper	3.5	2.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10C
		Dilution Factor: 1		Analysis Time..: 16:37		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8540

TOTAL Metals

Lot-Sample #...: H8F160180-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	7190	11.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10D
		Dilution Factor: 1		Analysis Time..: 16:37		
Magnesium	684	559	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10E
		Dilution Factor: 1		Analysis Time..: 16:37		
Manganese	172	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10F
		Dilution Factor: 1		Analysis Time..: 16:37		
Nickel	8.6	4.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10G
		Dilution Factor: 1		Analysis Time..: 16:37		
Potassium	ND	559	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10H
		Dilution Factor: 1		Analysis Time..: 16:37		
Silver	ND	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10J
		Dilution Factor: 1		Analysis Time..: 16:37		
Sodium	ND	559	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10K
		Dilution Factor: 1		Analysis Time..: 16:37		
Vanadium	10.1	5.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10L
		Dilution Factor: 1		Analysis Time..: 16:37		
Zinc	22.9	2.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33V10M
		Dilution Factor: 1		Analysis Time..: 16:37		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8550

TOTAL Metals

Lot-Sample #...: H8F160180-002 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/30/98	CJ33P10W
		Dilution Factor: 1		Analysis Time..: 14:07		
Prep Batch #...: 8181151						
Aluminum	5080	24.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P106
		Dilution Factor: 1		Analysis Time..: 16:16		
Arsenic	23.6	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33P10R
		Dilution Factor: 1		Analysis Time..: 18:54		
Lead	6.4	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ33P10T
		Dilution Factor: 1		Analysis Time..: 18:54		
Antimony	ND	7.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P107
		Dilution Factor: 1		Analysis Time..: 16:16		
Barium	39.3	24.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P108
		Dilution Factor: 1		Analysis Time..: 16:16		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ33P10U
		Dilution Factor: 1		Analysis Time..: 18:54		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P109
		Dilution Factor: 1		Analysis Time..: 16:16		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33P10V
		Dilution Factor: 1		Analysis Time..: 18:54		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10A
		Dilution Factor: 1		Analysis Time..: 16:16		
Calcium	18800	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10C
		Dilution Factor: 1		Analysis Time..: 16:16		
Chromium	10.6	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10D
		Dilution Factor: 1		Analysis Time..: 16:16		
Cobalt	8.2	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10E
		Dilution Factor: 1		Analysis Time..: 16:16		
Copper	19.3	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10F
		Dilution Factor: 1		Analysis Time..: 16:16		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8550

TOTAL Metals

Lot-Sample #...: H8F160180-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	23200	12.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10G
		Dilution Factor: 1		Analysis Time..: 16:16		
Magnesium	6810	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10H
		Dilution Factor: 1		Analysis Time..: 16:16		
Manganese	551	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10J
		Dilution Factor: 1		Analysis Time..: 16:16		
Nickel	24.9	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10K
		Dilution Factor: 1		Analysis Time..: 16:16		
Potassium	803	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10L
		Dilution Factor: 1		Analysis Time..: 16:16		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10M
		Dilution Factor: 1		Analysis Time..: 16:16		
Sodium	ND	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10N
		Dilution Factor: 1		Analysis Time..: 16:16		
Vanadium	22.3	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10P
		Dilution Factor: 1		Analysis Time..: 16:16		
Zinc	55.0	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ33P10Q
		Dilution Factor: 1		Analysis Time..: 16:16		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8560

TOTAL Metals

Lot-Sample #...: H8F160180-007 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/30/98	CJ33W10T
		Dilution Factor: 1		Analysis Time..: 14:24		
Prep Batch #...: 8181151						
Aluminum	9320	24.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W103
		Dilution Factor: 1		Analysis Time..: 16:42		
Arsenic	8.3	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33W10N
		Dilution Factor: 1		Analysis Time..: 19:21		
Lead	9.8	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ33W10P
		Dilution Factor: 1		Analysis Time..: 19:21		
Antimony	ND	7.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W104
		Dilution Factor: 1		Analysis Time..: 16:42		
Barium	54.5	24.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W105
		Dilution Factor: 1		Analysis Time..: 16:42		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ33W10Q
		Dilution Factor: 1		Analysis Time..: 19:21		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W106
		Dilution Factor: 1		Analysis Time..: 16:42		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33W10R
		Dilution Factor: 1		Analysis Time..: 19:21		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W107
		Dilution Factor: 1		Analysis Time..: 16:42		
Calcium	57200	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W108
		Dilution Factor: 1		Analysis Time..: 16:42		
Chromium	16.2	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W109
		Dilution Factor: 1		Analysis Time..: 16:42		
Cobalt	8.9	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10A
		Dilution Factor: 1		Analysis Time..: 16:42		
Copper	22.6	3.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10C
		Dilution Factor: 1		Analysis Time..: 16:42		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8560

TOTAL Metals

Lot-Sample #...: H8F160180-007 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	19500	12.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10D
		Dilution Factor: 1		Analysis Time..: 16:42		
Magnesium	17400	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10E
		Dilution Factor: 1		Analysis Time..: 16:42		
Manganese	433	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10F
		Dilution Factor: 1		Analysis Time..: 16:42		
Nickel	23.9	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10G
		Dilution Factor: 1		Analysis Time..: 16:42		
Potassium	1860	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10H
		Dilution Factor: 1		Analysis Time..: 16:42		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10J
		Dilution Factor: 1		Analysis Time..: 16:42		
Sodium	ND	623	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10K
		Dilution Factor: 1		Analysis Time..: 16:42		
Vanadium	25.9	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10L
		Dilution Factor: 1		Analysis Time..: 16:42		
Zinc	60.6	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ33W10M
		Dilution Factor: 1		Analysis Time..: 16:42		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8580

TOTAL Metals

Lot-Sample #...: H8F160180-003 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/30/98	CJ33Q10W
		Dilution Factor: 1		Analysis Time..: 14:10		
Prep Batch #...: 8181151						
Aluminum	11900	22.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q106
		Dilution Factor: 1		Analysis Time..: 16:22		
Arsenic	11.5	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ33Q10R
		Dilution Factor: 1		Analysis Time..: 18:59		
Lead	11.3	0.34	mg/kg	SW846 6010A	06/30-07/07/98	CJ33Q10T
		Dilution Factor: 1		Analysis Time..: 18:59		
Antimony	ND	6.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q107
		Dilution Factor: 1		Analysis Time..: 16:22		
Barium	82.0	22.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q108
		Dilution Factor: 1		Analysis Time..: 16:22		
Selenium	ND	0.57	mg/kg	SW846 6010A	06/30-07/07/98	CJ33Q10U
		Dilution Factor: 1		Analysis Time..: 18:59		
Beryllium	0.67	0.57	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q109
		Dilution Factor: 1		Analysis Time..: 16:22		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ33Q10V
		Dilution Factor: 1		Analysis Time..: 18:59		
Cadmium	ND	0.57	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10A
		Dilution Factor: 1		Analysis Time..: 16:22		
Calcium	16600	569	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10C
		Dilution Factor: 1		Analysis Time..: 16:22		
Chromium	20.3	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10D
		Dilution Factor: 1		Analysis Time..: 16:22		
Cobalt	11.1	5.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10E
		Dilution Factor: 1		Analysis Time..: 16:22		
Copper	26.8	2.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10F
		Dilution Factor: 1		Analysis Time..: 16:22		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8580

TOTAL Metals

Lot-Sample #...: H8F160180-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	27400	11.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10G
		Dilution Factor: 1		Analysis Time..: 16:22		
Magnesium	8890	569	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10H
		Dilution Factor: 1		Analysis Time..: 16:22		
Manganese	391	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10J
		Dilution Factor: 1		Analysis Time..: 16:22		
Nickel	29.1	4.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10K
		Dilution Factor: 1		Analysis Time..: 16:22		
Potassium	1830	569	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10L
		Dilution Factor: 1		Analysis Time..: 16:22		
Silver	ND	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10M
		Dilution Factor: 1		Analysis Time..: 16:22		
Sodium	ND	569	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10N
		Dilution Factor: 1		Analysis Time..: 16:22		
Vanadium	31.0	5.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10P
		Dilution Factor: 1		Analysis Time..: 16:22		
Zinc	69.9	2.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ33Q10Q
		Dilution Factor: 1		Analysis Time..: 16:22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8590

TOTAL Metals

Lot-Sample #...: H8F160180-008 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180248						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/30/98	CJ33X10T
		Dilution Factor: 1		Analysis Time..: 14:26		
Prep Batch #...: 8181151						
Aluminum	5910	23.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X103
		Dilution Factor: 1		Analysis Time..: 16:57		
Arsenic	3.1	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33X10N
		Dilution Factor: 1		Analysis Time..: 19:38		
Lead	4.9	0.35	mg/kg	SW846 6010A	06/30-07/07/98	CJ33X10P
		Dilution Factor: 1		Analysis Time..: 19:38		
Antimony	ND	7.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X104
		Dilution Factor: 1		Analysis Time..: 16:57		
Barium	27.9	23.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X105
		Dilution Factor: 1		Analysis Time..: 16:57		
Selenium	ND	0.58	mg/kg	SW846 6010A	06/30-07/07/98	CJ33X10Q
		Dilution Factor: 1		Analysis Time..: 19:38		
Beryllium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X106
		Dilution Factor: 1		Analysis Time..: 16:57		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ33X10R
		Dilution Factor: 1		Analysis Time..: 19:38		
Cadmium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X107
		Dilution Factor: 1		Analysis Time..: 16:57		
Calcium	4680	579	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X108
		Dilution Factor: 1		Analysis Time..: 16:57		
Chromium	10.3	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X109
		Dilution Factor: 1		Analysis Time..: 16:57		
Cobalt	6.0	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X10A
		Dilution Factor: 1		Analysis Time..: 16:57		
Copper	14.0	2.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X10C
		Dilution Factor: 1		Analysis Time..: 16:57		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8590

TOTAL Metals

Lot-Sample #...: H8F160180-008 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**10900**	**11.6**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ33X10D**
		Dilution Factor: 1		Analysis Time..: 16:57		
Magnesium	**2050**	**579**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ33X10E**
		Dilution Factor: 1		Analysis Time..: 16:57		
Manganese	**231**	**1.7**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ33X10F**
		Dilution Factor: 1		Analysis Time..: 16:57		
Nickel	**10.3**	**4.6**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ33X10G**
		Dilution Factor: 1		Analysis Time..: 16:57		
Potassium	ND	579	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X10H
		Dilution Factor: 1		Analysis Time..: 16:57		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X10J
		Dilution Factor: 1		Analysis Time..: 16:57		
Sodium	ND	579	mg/kg	SW846 6010A	06/30-07/06/98	CJ33X10K
		Dilution Factor: 1		Analysis Time..: 16:57		
Vanadium	**17.0**	**5.8**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ33X10L**
		Dilution Factor: 1		Analysis Time..: 16:57		
Zinc	**27.2**	**2.3**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ33X10M**
		Dilution Factor: 1		Analysis Time..: 16:57		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8600

TOTAL Metals

Lot-Sample #...: H8F160180-009 Matrix.....: SOLID
Date Sampled...: 06/15/98 Date Received..: 06/16/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/30/98	CJ34010T
		Dilution Factor: 1		Analysis Time..: 14:34		
Prep Batch #...: 8181152						
Aluminum	13700	24.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ340103
		Dilution Factor: 1		Analysis Time..: 17:02		
Arsenic	15.3	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ34010N
		Dilution Factor: 1		Analysis Time..: 14:22		
Lead	14.0	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ34010P
		Dilution Factor: 1		Analysis Time..: 14:22		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ340104
		Dilution Factor: 1		Analysis Time..: 17:02		
Barium	76.3	24.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ340105
		Dilution Factor: 1		Analysis Time..: 17:02		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ34010Q
		Dilution Factor: 1		Analysis Time..: 14:22		
Beryllium	0.83	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ340106
		Dilution Factor: 1		Analysis Time..: 17:02		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ34010R
		Dilution Factor: 1		Analysis Time..: 14:22		
Cadmium	0.68	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ340107
		Dilution Factor: 1		Analysis Time..: 17:02		
Calcium	3580	618	mg/kg	SW846 6010A	06/30-07/06/98	CJ340108
		Dilution Factor: 1		Analysis Time..: 17:02		
Chromium	22.2	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ340109
		Dilution Factor: 1		Analysis Time..: 17:02		
Cobalt	18.4	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010A
		Dilution Factor: 1		Analysis Time..: 17:02		
Iron	34000	12.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010D
		Dilution Factor: 1		Analysis Time..: 17:02		

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8600

TOTAL Metals

Lot-Sample #...: H8F160180-009 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	4310	618	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010E
		Dilution Factor: 1		Analysis Time..: 17:02		
Manganese	780	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010F
		Dilution Factor: 1		Analysis Time..: 17:02		
Nickel	45.0	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010G
		Dilution Factor: 1		Analysis Time..: 17:02		
Potassium	1630	618	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010H
		Dilution Factor: 1		Analysis Time..: 17:02		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010J
		Dilution Factor: 1		Analysis Time..: 17:02		
Sodium	1030	618	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010K
		Dilution Factor: 1		Analysis Time..: 17:02		
Vanadium	36.7	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010L
		Dilution Factor: 1		Analysis Time..: 17:02		
Zinc	82.9	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ34010M
		Dilution Factor: 1		Analysis Time..: 17:02		
Prep Batch #...: 8189178						
Copper	29.1	3.1	mg/kg	SW846 6010A	07/08-07/09/98	CJ34020C
		Dilution Factor: 1		Analysis Time..: 17:49		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F290000-248 **Prep Batch #...:** 8180248						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/30/98	CJEPE101
		Dilution Factor: 1				
		Analysis Time..: 13:23				
MB Lot-Sample #: H8F290000-256 **Prep Batch #...:** 8180256						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/30/98	CJEQ4101
		Dilution Factor: 1				
		Analysis Time..: 14:29				
MB Lot-Sample #: H8F300000-151 **Prep Batch #...:** 8181151						
Aluminum	ND	20.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4610H
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Arsenic	ND	1.0	mg/kg	SW846 6010A	06/30-07/07/98	CJF4610D
		Dilution Factor: 1				
		Analysis Time..: 14:11				
Antimony	ND	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4610J
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Lead	ND	0.30	mg/kg	SW846 6010A	06/30-07/07/98	CJF4610E
		Dilution Factor: 1				
		Analysis Time..: 14:11				
Barium	ND	20.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4610K
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Selenium	ND	0.50	mg/kg	SW846 6010A	06/30-07/07/98	CJF4610F
		Dilution Factor: 1				
		Analysis Time..: 14:11				
Beryllium	ND	0.50	mg/kg	SW846 6010A	06/30-07/06/98	CJF4610L
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Thallium	ND	1.0	mg/kg	SW846 6010A	06/30-07/07/98	CJF4610G
		Dilution Factor: 1				
		Analysis Time..: 14:11				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	ND	0.50	mg/kg	SW846 6010A	06/30-07/06/98	CJF4610M
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Calcium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF4610N
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Chromium	ND	1.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4610P
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Cobalt	ND	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF46101
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Copper	ND	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJF46102
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Iron	32.1	10.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF46103
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Magnesium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF46104
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Manganese	ND	1.5	mg/kg	SW846 6010A	06/30-07/06/98	CJF46105
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Nickel	ND	4.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF46106
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Potassium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF46107
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Silver	ND	1.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF46108
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Sodium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF46109
		Dilution Factor: 1				
		Analysis Time..: 11:59				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	ND	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4610A
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Zinc	**3.1**	**2.0**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJF4610C**
		Dilution Factor: 1				
		Analysis Time..: 11:59				

MB Lot-Sample #: H8F300000-152 **Prep Batch #...:** 8181152

Aluminum	ND	20.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810H
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Arsenic	ND	1.0	mg/kg	SW846 6010A	06/30-07/07/98	CJF4810D
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Antimony	ND	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810J
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Lead	ND	0.30	mg/kg	SW846 6010A	06/30-07/07/98	CJF4810E
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Barium	ND	20.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810K
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Selenium	ND	0.50	mg/kg	SW846 6010A	06/30-07/07/98	CJF4810F
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Beryllium	ND	0.50	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810L
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Thallium	ND	1.0	mg/kg	SW846 6010A	06/30-07/07/98	CJF4810G
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Cadmium	ND	0.50	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810M
		Dilution Factor: 1				
		Analysis Time..: 11:49				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810N
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Chromium	ND	1.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810P
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Cobalt	ND	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF48101
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Iron	ND	10.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF48103
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Magnesium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF48104
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Manganese	ND	1.5	mg/kg	SW846 6010A	06/30-07/06/98	CJF48105
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Nickel	ND	4.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF48106
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Potassium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF48107
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Silver	ND	1.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF48108
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Sodium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF48109
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Vanadium	ND	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810A
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Zinc	ND	2.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810C
		Dilution Factor: 1				
		Analysis Time..: 11:49				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G080000-178 **Prep Batch #...:** 8189178						
Copper	ND	2.5	mg/kg	SW846 6010A	07/08-07/09/98	CJL27101
		Dilution Factor: 1				
		Analysis Time..: 17:39				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F130132-001 **Prep Batch #...:** 8180248							
Mercury	101	(55 - 130)			SW846 7471A	06/30/98	CJ1CM10U
	99	(55 - 130)	1.7	(0-20)	SW846 7471A	06/30/98	CJ1CM10V
		Dilution Factor: 1					
		Analysis Time..: 13:30					
MS Lot-Sample #: H8F130132-001 **Prep Batch #...:** 8181151							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM11W
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM11X
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Arsenic	85	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ1CM11M
	86	(80 - 120)	1.6	(0-20)	SW846 6010A	06/30-07/07/98	CJ1CM11N
		Dilution Factor: 1					
		Analysis Time..: 16:57					
Antimony	83	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM120
	80	(80 - 120)	3.0	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM121
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Lead	86	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ1CM11P
	88	(80 - 120)	1.5	(0-20)	SW846 6010A	06/30-07/07/98	CJ1CM11Q
		Dilution Factor: 1					
		Analysis Time..: 16:57					
Barium	94	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM122
	96	(80 - 120)	2.5	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM123
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Selenium	83	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ1CM11R
	85	(80 - 120)	1.6	(0-20)	SW846 6010A	06/30-07/07/98	CJ1CM11T
		Dilution Factor: 1					
		Analysis Time..: 16:57					
Beryllium	104	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM124
	106	(80 - 120)	2.0	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM125
		Dilution Factor: 1					
		Analysis Time..: 14:23					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	82	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ1CM11U
	84	(80 - 120)	1.8	(0-20)	SW846 6010A	06/30-07/07/98	CJ1CM11V
		Dilution Factor: 1					
		Analysis Time..: 16:57					
Cadmium	103	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM126
	105	(80 - 120)	2.3	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM127
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Calcium	105	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM128
	105	(80 - 120)	0.36	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM129
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Chromium	105	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM12A
	106	(80 - 120)	0.59	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM12C
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Cobalt	98	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM10W
	99	(80 - 120)	1.2	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM10X
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Copper	93	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM110
	98	(80 - 120)	4.1	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM111
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Iron	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM112
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM113
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Magnesium	104	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM114
	105	(80 - 120)	1.0	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM115
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Manganese	87	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM116
	83	(80 - 120)	1.9	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM117
		Dilution Factor: 1					
		Analysis Time..: 14:23					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID
Date Sampled...: 06/12/98 **Date Received..:** 06/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	97	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM118
	98	(80 - 120)	1.0	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM119
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Potassium	100	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM11A
	103	(80 - 120)	2.5	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM11C
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Silver	86	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM11D
	85	(80 - 120)	0.70	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM11E
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Sodium	97	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM11F
	101	(80 - 120)	4.6	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM11G
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Vanadium	99	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM11H
	99	(80 - 120)	0.04	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM11J
		Dilution Factor: 1					
		Analysis Time..: 14:23					
Zinc	98	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ1CM11K
	98	(80 - 120)	0.21	(0-20)	SW846 6010A	06/30-07/06/98	CJ1CM11L
		Dilution Factor: 1					
		Analysis Time..: 14:23					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F170153-006 **Prep Batch #...:** 8180256							
Mercury	102	(55 - 130)			SW846 7471A	06/30/98	CJ3Q012N
	106	(55 - 130)	3.4	(0-20)	SW846 7471A	06/30/98	CJ3Q012P
		Dilution Factor: 1					
		Analysis Time..: 15:22					
MS Lot-Sample #: H8F170153-006 **Prep Batch #...:** 8181152							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010H
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Antimony	87	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010K
	68 N,*	(80 - 120)	25	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010L
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Arsenic	82	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ3Q0129
	78 N	(80 - 120)	5.5	(0-20)	SW846 6010A	06/30-07/07/98	CJ3Q012A
		Dilution Factor: 1					
		Analysis Time..: 16:30					
Barium	96	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010N
	94	(80 - 120)	1.7	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010P
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Beryllium	107	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010R
	104	(80 - 120)	3.2	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010T
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Cadmium	104	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010V
	101	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010W
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Calcium	106	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0110
	103	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0111
		Dilution Factor: 1					
		Analysis Time..: 18:32					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	109	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0113
	102	(80 - 120)	4.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0114
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Cobalt	100	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0116
	98	(80 - 120)	1.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0117
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Iron	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011D
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011E
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Lead	88	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ3Q012D
	87	(80 - 120)	0.97	(0-20)	SW846 6010A	06/30-07/07/98	CJ3Q012E
		Dilution Factor: 1					
		Analysis Time..: 16:30					
Magnesium	105	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011G
	102	(80 - 120)	2.6	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011H
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Manganese	96	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011K
	85	(80 - 120)	4.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011L
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Nickel	100	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011N
	97	(80 - 120)	2.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011P
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Potassium	106	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011R
	101	(80 - 120)	4.4	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011T
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Selenium	85	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ3Q012G
	83	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/07/98	CJ3Q012H
		Dilution Factor: 1					
		Analysis Time..: 16:30					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	86	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011V
	83	(80 - 120)	2.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011W
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Sodium	101	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0120
	97	(80 - 120)	3.7	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0121
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Thallium	84	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ3Q012K
	82	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/07/98	CJ3Q012L
		Dilution Factor: 1					
		Analysis Time..: 16:30					
Vanadium	104	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0123
	99	(80 - 120)	4.3	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0124
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Zinc	108	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0126
	106	(80 - 120)	0.68	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0127
		Dilution Factor: 1					
		Analysis Time..: 18:32					

MS Lot-Sample #: H8F170153-006 **Prep Batch #...:** 8189178

Copper	90	(80 - 120)			SW846 6010A	07/08-07/09/98	CJ3Q012Q
	92	(80 - 120)	0.96	(0-20)	SW846 6010A	07/08-07/09/98	CJ3Q012R
		Dilution Factor: 1					
		Analysis Time..: 19:18					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8F290000-248 **Prep Batch #...:** 8180248					
Mercury	102	(80 - 120)	SW846 7471A	06/30/98	CJEPE102
		Dilution Factor: 1			
		Analysis Time..: 13:25			
LCS Lot-Sample#: H8F290000-256 **Prep Batch #...:** 8180256					
Mercury	103	(80 - 120)	SW846 7471A	06/30/98	CJEQ4102
		Dilution Factor: 1			
		Analysis Time..: 14:31			
LCS Lot-Sample#: H8F300000-151 **Prep Batch #...:** 8181151					
Cobalt	98	(87 - 110)	SW846 6010A	06/30-07/06/98	CJF4610Q
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Copper	96	(86 - 111)	SW846 6010A	06/30-07/06/98	CJF4610R
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Iron	97	(87 - 120)	SW846 6010A	06/30-07/06/98	CJF4610T
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Magnesium	100	(86 - 119)	SW846 6010A	06/30-07/06/98	CJF4610U
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Manganese	95	(89 - 112)	SW846 6010A	06/30-07/06/98	CJF4610V
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Nickel	96	(88 - 115)	SW846 6010A	06/30-07/06/98	CJF4610W
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Potassium	100	(83 - 113)	SW846 6010A	06/30-07/06/98	CJF4610X
		Dilution Factor: 1			
		Analysis Time..: 12:04			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium	95	(88 - 110)	SW846 6010A	06/30-07/06/98	CJF4611A
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Beryllium	100	(80 - 118)	SW846 6010A	06/30-07/06/98	CJF4611C
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Cadmium	102	(80 - 113)	SW846 6010A	06/30-07/06/98	CJF4611D
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Calcium	102	(84 - 117)	SW846 6010A	06/30-07/06/98	CJF4611E
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Chromium	101	(87 - 118)	SW846 6010A	06/30-07/06/98	CJF4611F
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Silver	84	(80 - 117)	SW846 6010A	06/30-07/06/98	CJF46110
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Sodium	100	(85 - 115)	SW846 6010A	06/30-07/06/98	CJF46111
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Vanadium	96	(89 - 113)	SW846 6010A	06/30-07/06/98	CJF46112
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Zinc	97	(89 - 118)	SW846 6010A	06/30-07/06/98	CJF46113
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Arsenic	91	(83 - 110)	SW846 6010A	06/30-07/07/98	CJF46114
		Dilution Factor: 1			
		Analysis Time..: 14:16			
Lead	93	(84 - 110)	SW846 6010A	06/30-07/07/98	CJF46115
		Dilution Factor: 1			
		Analysis Time..: 14:16			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	89	(80 - 110)	SW846 6010A	06/30-07/07/98	CJF46116
		Dilution Factor: 1			
		Analysis Time..: 14:16			
Thallium	89	(83 - 110)	SW846 6010A	06/30-07/07/98	CJF46117
		Dilution Factor: 1			
		Analysis Time..: 14:16			
Aluminum	101	(89 - 119)	SW846 6010A	06/30-07/06/98	CJF46118
		Dilution Factor: 1			
		Analysis Time..: 12:04			
Antimony	112	(86 - 119)	SW846 6010A	06/30-07/06/98	CJF46119
		Dilution Factor: 1			
		Analysis Time..: 12:04			
LCS Lot-Sample#:	H8F300000-152	**Prep Batch #...:** 8181152			
Cobalt	97	(87 - 110)	SW846 6010A	06/30-07/06/98	CJF4810Q
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Iron	96	(87 - 120)	SW846 6010A	06/30-07/06/98	CJF4810T
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Magnesium	98	(86 - 119)	SW846 6010A	06/30-07/06/98	CJF4810U
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Manganese	94	(89 - 112)	SW846 6010A	06/30-07/06/98	CJF4810V
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Nickel	95	(88 - 115)	SW846 6010A	06/30-07/06/98	CJF4810W
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Potassium	98	(83 - 113)	SW846 6010A	06/30-07/06/98	CJF4810X
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Barium	93	(88 - 110)	SW846 6010A	06/30-07/06/98	CJF4811A
		Dilution Factor: 1			
		Analysis Time..: 11:54			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium	99	(80 - 118)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4811C
Cadmium	107	(80 - 113)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4811D
Calcium	100	(84 - 117)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4811E
Chromium	100	(87 - 118)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4811F
Silver	83	(80 - 117)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF48110
Sodium	98	(85 - 115)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF48111
Vanadium	95	(89 - 113)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF48112
Zinc	96	(89 - 118)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF48113
Arsenic	90	(83 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:43	06/30-07/07/98	CJF48114
Lead	92	(84 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:43	06/30-07/07/98	CJF48115
Selenium	88	(80 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:43	06/30-07/07/98	CJF48116

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB030 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	87	(83 - 110)	SW846 6010A	06/30-07/07/98	CJF48117
		Dilution Factor: 1			
		Analysis Time..: 13:43			
Aluminum	96	(89 - 119)	SW846 6010A	06/30-07/06/98	CJF48118
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Antimony	110	(86 - 119)	SW846 6010A	06/30-07/06/98	CJF48119
		Dilution Factor: 1			
		Analysis Time..: 11:54			
LCS Lot-Sample#:	H8G080000-178	**Prep Batch #...:** 8189178			
Copper	96	(86 - 111)	SW846 6010A	07/08-07/09/98	CJL27102
		Dilution Factor: 1			
		Analysis Time..: 17:44			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group
Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB030

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	TOTAL	EXP
				8260A	8270B	8081	6010A	8330
1	6/13/98	H8F130132	7680				X	X
2			7690				X	X
3			7700	X	X	X	X	X
4			7720	X	X	X	X	X
5			7730				X	X
6			7740				X	X
7			7760				X	X
8			7770				X	X
9			7780	X	X	X	X	X
10			7920	X	X	X	X	X
11			7930				X	X
12			7940				X	X
13	6/16/98	H8F160180	8380	X	X	X	X	X
14			8390				X	X
15			8400				X	X
16			8540				X	X
17			8550	X	X	X	X	X
18			8560				X	X
19			8580	X	X	X	X	X
20			8590				X	X
21			8600				X	X

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: SOIL
ANALYTICAL DUE: 7-6-98
REPORT DUE: 7-10-98
CLOSED?__YES__

7/7/98 9:50 AM

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F130132

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?			✓
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/13/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/13/98 (per faxed RFA)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PBOW Lot No.: H8F13013

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		✓
c. Is preservative check (pH) noted on RFA/COC?			
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?			✓
c. If SDG is complete, has the due date been revised & marked closed?			
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/15/98

QA016R7.doc, 01/29/98

Quote# 23581

H8F130132

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061298QESK

Project Number: 773701

Samples Shipment Date: 12-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Tumaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850042

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/12/98 Time: 1800

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) [signature] Date: 6/13/98 Time: 0920

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd @ 6°C
w/custody Seals
Intact BPB 6/13/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7230	PBOW-98-GW-PRRP-DP01-7230	12-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7680	PBOW-98-SO-PRRP-DP13-7680-(0001	12-JUN-98	10:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7680	PBOW-98-SO-PRRP-DP13-7680-(0001	12-JUN-98	10:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7690	PBOW-98-SO-PRRP-DP13-7690-(0405	12-JUN-98	10:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

H8F130132

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061298QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7690	PBOW-98-SO-PRRP-DP13-7690-(0405	12-JUN-98	10:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7700	PBOW-98-SO-PRRP-DP13-7700-(0910	12-JUN-98	11:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7700	PBOW-98-SO-PRRP-DP13-7700-(0910	12-JUN-98	11:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7700	PBOW-98-SO-PRRP-DP13-7700-(0910	12-JUN-98	11:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7700	PBOW-98-SO-PRRP-DP13-7700-(0910	12-JUN-98	11:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7710	PBOW-98-GW-PRRP-DP13-7710	12-JUN-98	14:30	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7720	PBOW-98-SO-PRRP-DP14-7720-(0001	11-JUN-98	16:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7720	PBOW-98-SO-PRRP-DP14-7720-(0001	11-JUN-98	16:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7720	PBOW-98-SO-PRRP-DP14-7720-(0001	11-JUN-98	16:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7720	PBOW-98-SO-PRRP-DP14-7720-(0001	11-JUN-98	16:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7730	PBOW-98-SO-PRRP-DP14-7730-(0405	11-JUN-98	16:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7730	PBOW-98-SO-PRRP-DP14-7730-(0405	11-JUN-98	16:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7740	PBOW-98-SO-PRRP-DP14-7740-(0910	11-JUN-98	16:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7740	PBOW-98-SO-PRRP-DP14-7740-(0910	11-JUN-98	16:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7750	PBOW-98-GW-PRRP-DP14-7750	12-JUN-98	10:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7760	PBOW-98-SO-PRRP-DP15-7760-(0001	12-JUN-98	13:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7760	PBOW-98-SO-PRRP-DP15-7760-(0001	12-JUN-98	13:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7770	PBOW-98-SO-PRRP-DP15-7770-(0405	12-JUN-98	13:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7770	PBOW-98-SO-PRRP-DP15-7770-(0405	12-JUN-98	13:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7780	PBOW-98-SO-PRRP-DP15-7780-(0910	12-JUN-98	13:15	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7780	PBOW-98-SO-PRRP-DP15-7780-(0910	12-JUN-98	13:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7780	PBOW-98-SO-PRRP-DP15-7780-(0910	12-JUN-98	13:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7780	PBOW-98-SO-PRRP-DP15-7780-(0910	12-JUN-98	13:15	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		

H8F130132

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061298QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7790	PBOW-98-GW-PRRP-DP15-7790	12-JUN-98	17:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7910	PBOW-98-GW-PRRP-DP18-7910	12-JUN-98	08:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7920	PBOW-98-SO-PRRP-DP19-7920-(0001	12-JUN-98	14:25	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7920	PBOW-98-SO-PRRP-DP19-7920-(0001	12-JUN-98	14:25	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7920	PBOW-98-SO-PRRP-DP19-7920-(0001	12-JUN-98	14:25	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7920	PBOW-98-SO-PRRP-DP19-7920-(0001	12-JUN-98	14:25	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7930	PBOW-98-SO-PRRP-DP19-7930-(0405	12-JUN-98	14:35	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7930	PBOW-98-SO-PRRP-DP19-7930-(0405	12-JUN-98	14:35	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7940	PBOW-98-SO-PRRP-DP19-7940-(0910	12-JUN-98	14:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7940	PBOW-98-SO-PRRP-DP19-7940-(0910	12-JUN-98	14:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
9030		12-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: H8F160180

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		✓
h. Were samples received in the appropriate containers?	✓		✓
i. Did you check for residual chlorine, if necessary?	✓		✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		✓
k. Were samples screened for radioactivity?	✓		✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [illegible] DATE: 6-16-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			✓
b. Informed Login associates of special instructions ?			

2. If custody seals were missing/not intact, was client notified?

PROJECT MANAGER : [illegible] DATE: 6/16/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
8400	metals	3b	Transferred to other JAR

☐ Client informed on _____ by _____. Person contacted: _____.

☐ Noted actions in comments section above.

☐ No action necessary; process as is.

Project Manager: [illegible] Date: 6/16/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken Rec'd Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T.Knox PROJECT: PBOW Lot No.: H8F160180

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?	✓		
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/17/98

QA016R7.doc, 01/29/98

Quote # 23581

H8F160180

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-061598QESK

Project Number: 773701

Samples Shipment Date: 15-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850075

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) Date: 5/16/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Received By (Signature/Affiliation) K. Woolcock QES Date: 6/16/98 Time: 0940

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd w/ custody seals intact @ 4°C
6-16-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8380	PBOW-98-SO-WARP-DP08-8380-(000	15-JUN-98	13:50	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8380	PBOW-98-SO-WARP-DP08-8380-(000	15-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8380	PBOW-98-SO-WARP-DP08-8380-(000	15-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8380	PBOW-98-SO-WARP-DP08-8380-(000	15-JUN-98	13:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8390	PBOW-98-SO-WARP-DP08-8390-(040	15-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8390	PBOW-98-SO-WARP-DP08-8390-(040	15-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8400	PBOW-98-SO-WARP-DP08-8400-(091	15-JUN-98	14:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8400	PBOW-98-SO-WARP-DP08-8400-(091	15-JUN-98	14:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

HSF160180

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-061598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8540	PBOW-98-SO-WARP-DP12-8540-(000	15-JUN-98	09:15	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8540	PBOW-98-SO-WARP-DP12-8540-(000	15-JUN-98	09:15	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8550	PBOW-98-SO-WARP-DP12-8550-(040	15-JUN-98	09:25	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8550	PBOW-98-SO-WARP-DP12-8550-(040	15-JUN-98	09:25	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8550	PBOW-98-SO-WARP-DP12-8550-(040	15-JUN-98	09:25	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8550	PBOW-98-SO-WARP-DP12-8550-(040	15-JUN-98	09:25	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8560	PBOW-98-SO-WARP-DP12-8560-(091	15-JUN-98	09:35	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8560	PBOW-98-SO-WARP-DP12-8560-(091	15-JUN-98	09:35	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8570	PBOW-98-GW-WARP-DP12-8570	15-JUN-98	10:30	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8570	PBOW-98-GW-WARP-DP12-8570	15-JUN-98	10:30	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8580	PBOW-98-SO-WARP-DP13-8580-(000	15-JUN-98	10:50	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8580	PBOW-98-SO-WARP-DP13-8580-(000	15-JUN-98	10:50	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8580	PBOW-98-SO-WARP-DP13-8580-(000	15-JUN-98	10:50	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8580	PBOW-98-SO-WARP-DP13-8580-(000	15-JUN-98	10:50	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8590	PBOW-98-SO-WARP-DP13-8590-(040	15-JUN-98	11:00	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8590	PBOW-98-SO-WARP-DP13-8590-(040	15-JUN-98	11:00	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8600	PBOW-98-SO-WARP-DP13-8600-(091	15-JUN-98	11:10	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8600	PBOW-98-SO-WARP-DP13-8600-(091	15-JUN-98	11:10	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
9033		15-JUN-98	13:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

Quanterra Environmental Services

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

ANALYTICAL REPORT

PROJECT NO. 773701

PBOW-Red Water Ponds
SDG #: PB031

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

July 21, 1998

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB031

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
B8F180000-139	L	06/16/98	DUPLICATE CHECK
B8F180000-247	L	06/16/98	DUPLICATE CHECK
B8F180000-250	L	06/16/98	DUPLICATE CHECK
B8F230000-174	L	06/16/98	DUPLICATE CHECK
B8F230000-175	L	06/16/98	DUPLICATE CHECK
B8F260000-151	L	06/16/98	DUPLICATE CHECK
B8G010000-271	L	06/16/98	DUPLICATE CHECK
B8G020000-193	L	06/17/98	DUPLICATE CHECK
H8F160170-001		06/16/98	8570
H8F160170-002		06/16/98	8610
H8F160170-002	X	06/16/98	8610 DUP
H8F160170-003		06/16/98	9033
H8F160170-004		06/16/98	8610
H8F160181-001		06/16/98	7270
H8F160181-002		06/16/98	7390
H8F160181-003		06/16/98	7550
H8F160181-004		06/16/98	7630
H8F160181-005		06/16/98	7990
H8F160181-005	D	06/16/98	7990
H8F160181-005	S	06/16/98	7990
H8F160181-006		06/16/98	8000
H8F160181-007		06/16/98	8020
H8F160181-008		06/16/98	9032
H8F160181-009		06/16/98	7270
H8F160181-010		06/16/98	7390
H8F160181-011		06/16/98	7550
H8F160181-012		06/16/98	7630
H8F160181-013		06/16/98	7990
H8F160181-013	D	06/16/98	7990
H8F160181-013	S	06/16/98	7990
H8F170165-001		06/17/98	8410
H8F170165-002		06/17/98	8450
H8F170165-002	D	06/17/98	8450
H8F170165-002	S	06/17/98	8450
H8F170165-003		06/17/98	8450
H8F170165-004		06/17/98	9034

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Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB031

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F220000-137	L	06/16/98	DUPLICATE CHECK

Quanterra
Environmental Services

SAMPLE SUMMARY

PB031 : H8F160170

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ2XJ	001	8570	06/15/98	10:30
CJ2XV	002	8610	06/15/98	13:00
CJ309	003	9033	06/15/98	13:00
CJ30X	004	8610	06/15/98	13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.

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- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

Quanterra
Environmental Services

SAMPLE SUMMARY

PB031 : H8F160181

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ344	001	7270	06/14/98	15:00
CJ345	002	7390	06/14/98	11:00
CJ346	003	7550	06/14/98	16:00
CJ348	004	7630	06/14/98	17:00
CJ349	005	7990	06/14/98	16:00
CJ34A	006	8000	06/15/98	09:15
CJ34C	007	8020	06/15/98	09:00
CJ34D	008	9032	06/15/98	11:00
CJ34E	009	7270	06/14/98	15:00
CJ34F	010	7390	06/14/98	11:00
CJ34H	011	7550	06/14/98	16:00
CJ34J	012	7630	06/14/98	17:00
CJ34K	013	7990	06/14/98	16:00

NOTE(S):

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Quanterra
Environmental Services

SAMPLE SUMMARY

PB031 : H8F170165

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ3QT	001	8410	06/16/98	07:30
CJ3QW	002	8450	06/16/98	10:00
CJ3R2	003	8450	06/16/98	10:00
CJ3R6	004	9034	06/16/98	10:00

NOTE(S):

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Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

PB031

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride (Colorimetric, Automated Ferricyanide)	MCAWW 325.2
Dissolved ICP Metals	SW846 6010A
Filterable Residue (TDS)	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate	MCAWW 353.2
Nitrate as N	MCAWW 300.0A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Non-Filterable Residue (TSS)	MCAWW 160.2
Organochlorine Pesticides and PCBs	SW846 8081
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Sulfate	MCAWW 375.4
Total Cyanide	SW846 9010A
Total Hardness (Titrimetric, EDTA)	MCAWW 130.2
Total Organic Carbon	SW846 9060
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

Quanterra
Environmental Services

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Semivolatiles

The matrix spike surrogate recoveries for sample 7990 were acceptable for all analytes except terphenyl-d14. Since the original samples surrogate recoveries and all other spike/surrogate recoveries were acceptable, the problem is confined to the matrix spike and no further analyses were performed.

The matrix spike/matrix spike duplicate RPD results for sample 7990 were acceptable for all analytes except pentachlorophenol and pyrene. The laboratory control sample showed acceptable results indicating that the analysis was in control.

Metals

The matrix spike/matrix spike duplicate recoveries and RPDs for samples 7990 and 7990F were outside control limits for some analytes. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level.. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

Wet Chemistry

Per Kim Napier of IT Corporation, samples 8610, 7270, 7630, 7550, and 7990 were analyzed by method 300.0 in order to meet holding time criteria. These samples were also analyzed by requested method 353.2 at a later date. Both sets of data are reported.

COMMENTS:

Volatiles

Samples 7550 and 7630 were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis due to foaming; the reporting limits were adjusted accordingly.

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PROJECT NARRATIVE

COMMENTS continued:

Volatiles

The pH of samples 7390, 8570 and 8410 were greater than 2. The sample was analyzed within the normal 14 day holding time. EPA has indicated that some aromatic compounds in wastewater samples, notably benzene, toluene, and ethyl benzene, may be susceptible to biological degradation if samples are not preserved to a pH of 2.

Semivolatiles

Samples 7630, 7550, and 8610 were reported with elevated reporting limits for all analytes due to the difficult sample matrices. Dilutions were necessary prior to analysis, and the reporting limits were adjusted accordingly.

PCBs

Sample 8610 and 8450 were reported with elevated reporting limits for all analytes due to the difficult sample matrix. The lowest dilutions that could be analyzed were performed; the reporting limits were adjusted accordingly.

Explosives

Sample 7270, 7390, and 7550 were reported with elevated reporting limits for all analytes due to the difficult sample matrix. Samples 8610, 8450 and 8570 were reported with elevated reporting limits for several compounds due to target analyte concentrations; the reporting limits were adjusted accordingly.

Wet Chemistry

The following samples were reported with elevated reporting limits for chloride due to the difficult sample matrix; 8610, 7550, 7630 and 8450.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8570

GC/MS Volatiles

Lot-Sample #...: H8F160170-001 **Work Order #...:** CJ2XJ101 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.14 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 128)
1,2-Dichloroethane-d4	94	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	98	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8570

GC/MS Volatiles

Lot-Sample #...: H8F160170-001 **Work Order #...:** CJ2XJ101 **Matrix.....:** WATER

NOTE(S):

J *Estimated result. Result is less than RL.*

IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

GC/MS Volatiles

Lot-Sample #...: H8F160170-002 **Work Order #...:** CJ2XV101 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.53 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	**0.19 J**	**1.0**	**ug/L**
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	92	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	100	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

GC/MS Volatiles

Lot-Sample #...: H8F160170-002 **Work Order #...:** CJ2XV101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9033

GC/MS Volatiles

Lot-Sample #...: H8F160170-003 **Work Order #...:** CJ309101 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.7 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.99 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.16 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 128)
1,2-Dichloroethane-d4	92	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	101	(76 - 111)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 9033

GC/MS Volatiles

Lot-Sample #...: H8F160170-003 **Work Order #...:** CJ309101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

GC/MS Volatiles

Lot-Sample #...: H8F160181-001 **Work Order #...:** CJ344101 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.14 J**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.22 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	92	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	100	(76 - 111)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

GC/MS Volatiles

Lot-Sample #...: H8F160181-001 **Work Order #...:** CJ344101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

GC/MS Volatiles

Lot-Sample #...: H8F160181-002 **Work Order #...:** CJ345101 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**3.1 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.26 J**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.30 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	92	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	100	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

GC/MS Volatiles

Lot-Sample #...: H8F160181-002 **Work Order #...:** CJ345101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

GC/MS Volatiles

Lot-Sample #...: H8F160181-003 **Work Order #...:** CJ346101 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 2 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	4.0	ug/L
Bromomethane	ND	4.0	ug/L
Vinyl chloride	ND	4.0	ug/L
Chloroethane	ND	4.0	ug/L
Methylene chloride	**0.59 J,B**	**2.0**	**ug/L**
Acetone	**2.8 J**	**20**	**ug/L**
Carbon disulfide	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
1,1-Dichloroethane	ND	2.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	2.0	ug/L
1,2-Dichloroethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Bromodichloromethane	ND	2.0	ug/L
1,2-Dichloropropane	ND	2.0	ug/L
cis-1,3-Dichloropropene	ND	2.0	ug/L
Trichloroethene	ND	2.0	ug/L
Dibromochloromethane	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Benzene	ND	2.0	ug/L
trans-1,3-Dichloropropene	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L
Toluene	ND	2.0	ug/L
Chlorobenzene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Styrene	ND	2.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 128)
1,2-Dichloroethane-d4	91	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	100	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

GC/MS Volatiles

Lot-Sample #...: H8F160181-003 **Work Order #...:** CJ346101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

GC/MS Volatiles

Lot-Sample #...: H8F160181-004 **Work Order #...:** CJ348101 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 5 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	10	ug/L
Bromomethane	ND	10	ug/L
Vinyl chloride	ND	10	ug/L
Chloroethane	ND	10	ug/L
Methylene chloride	**2.2 J,B**	**5.0**	**ug/L**
Acetone	ND	50	ug/L
Carbon disulfide	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethene (total)	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
2-Butanone	ND	25	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
Toluene	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
Styrene	ND	5.0	ug/L
Xylenes (total)	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	93	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	100	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

GC/MS Volatiles

Lot-Sample #...: H8F160181-004 **Work Order #...:** CJ348101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

GC/MS Volatiles

Lot-Sample #...: H8F160181-005 **Work Order #...:** CJ349101 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.14 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	91	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	96	(76 - 111)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

GC/MS Volatiles

Lot-Sample #...: H8F160181-005 **Work Order #...:** CJ349101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8000

GC/MS Volatiles

Lot-Sample #...: H8F160181-006 **Work Order #...:** CJ34A101 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.6 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.18 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.17 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(67 - 128)
1,2-Dichloroethane-d4	90	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	97	(76 - 111)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8000

GC/MS Volatiles

Lot-Sample #...: H8F160181-006 **Work Order #...:** CJ34A101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8020

GC/MS Volatiles

Lot-Sample #...: H8F160181-007 **Work Order #...:** CJ34C101 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.8 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.18 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.18 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 128)
1,2-Dichloroethane-d4	90	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	96	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8020

GC/MS Volatiles

Lot-Sample #...: H8F160181-007 **Work Order #...:** CJ34C101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9032

GC/MS Volatiles

Lot-Sample #...: H8F160181-008 **Work Order #...:** CJ34D101 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.2 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.23 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.22 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(67 - 128)
1,2-Dichloroethane-d4	91	(67 - 128)
Toluene-d8	93	(71 - 119)
4-Bromofluorobenzene	97	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 9032

GC/MS Volatiles

Lot-Sample #...: H8F160181-008 **Work Order #...:** CJ34D101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8410

GC/MS Volatiles

Lot-Sample #...: H8F170165-001 **Work Order #...:** CJ3QT101 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176277
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**3.3 J**	**10**	**ug/L**
Carbon disulfide	**0.15 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.20 J**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.17 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(67 - 128)
1,2-Dichloroethane-d4	95	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	95	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8410

GC/MS Volatiles

Lot-Sample #...: H8F170165-001 **Work Order #...:** CJ3QT101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

GC/MS Volatiles

Lot-Sample #...: H8F170165-002 **Work Order #...:** CJ3QW101 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176277
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.15 J**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 128)
1,2-Dichloroethane-d4	95	(67 - 128)
Toluene-d8	91	(71 - 119)
4-Bromofluorobenzene	96	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

GC/MS Volatiles

Lot-Sample #...: H8F170165-002 **Work Order #...:** CJ3QW101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9034

GC/MS Volatiles

Lot-Sample #...: H8F170165-004 **Work Order #...:** CJ3R6101 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176277
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.7 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.15 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 128)
1,2-Dichloroethane-d4	94	(67 - 128)
Toluene-d8	92	(71 - 119)
4-Bromofluorobenzene	98	(76 - 111)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 9034

GC/MS Volatiles

Lot-Sample #...: H8F170165-004 **Work Order #...:** CJ3R6101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB031 **Work Order #...:** CJC6N101 **Matrix.....:** WATER
MB Lot-Sample #: H8F250000-277

Prep Date.....: 06/25/98
Analysis Date..: 06/25/98 **Prep Batch #...:** 8176277
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**0.31 J**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(67 - 130)
1,2-Dichloroethane-d4	90	(67 - 130)
Toluene-d8	89	(70 - 130)
4-Bromofluorobenzene	96	(70 - 130)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB031 **Work Order #...:** CJC6N101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB031 **Work Order #...:** CJC6N102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F250000-277
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176277
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**98**	**(70 - 137)**	**SW846 8260A**
Benzene	**103**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**96**	**(70 - 130)**	**SW846 8260A**
Toluene	**104**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**103**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(67 - 130)
1,2-Dichloroethane-d4	93	(67 - 130)
Toluene-d8	93	(70 - 130)
4-Bromofluorobenzene	83	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB031 **Work Order #...:** CJ7VT101 **Matrix.....:** WATER
MB Lot-Sample #: H8F230000-132

Prep Date.....: 06/23/98
Analysis Date..: 06/23/98 **Prep Batch #...:** 8174132
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**0.40 J**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(67 - 130)
1,2-Dichloroethane-d4	91	(67 - 130)
Toluene-d8	93	(70 - 130)
4-Bromofluorobenzene	97	(70 - 130)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB031 **Work Order #...:** CJ7VT101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB031 **Work Order #...:** CJ349102-MS **Matrix.....:** WATER
MS Lot-Sample #: H8F160181-005 CJ349103-MSD
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**102**	**(70 - 137)**			**SW846 8260A**
	96	**(70 - 137)**	**6.0**	**(0-20)**	**SW846 8260A**
Trichloroethene	**101**	**(70 - 130)**			**SW846 8260A**
	94	**(70 - 130)**	**7.7**	**(0-20)**	**SW846 8260A**
Benzene	**105**	**(70 - 130)**			**SW846 8260A**
	98	**(70 - 130)**	**7.0**	**(0-20)**	**SW846 8260A**
Toluene	**109**	**(70 - 130)**			**SW846 8260A**
	103	**(70 - 130)**	**5.6**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**105**	**(70 - 130)**			**SW846 8260A**
	100	**(70 - 130)**	**5.2**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(67 - 130)
	85	(67 - 130)
1,2-Dichloroethane-d4	88	(67 - 130)
	83	(67 - 130)
Toluene-d8	94	(70 - 130)
	94	(70 - 130)
4-Bromofluorobenzene	87	(70 - 130)
	88	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB031 **Work Order #...:** CJ7VT102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F230000-132
Prep Date.....: 06/23/98 **Analysis Date..:** 06/23/98
Prep Batch #...: 8174132
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**103**	**(70 - 137)**	**SW846 8260A**
Benzene	**105**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**100**	**(70 - 130)**	**SW846 8260A**
Toluene	**106**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**105**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(67 - 130)
1,2-Dichloroethane-d4	91	(67 - 130)
Toluene-d8	93	(70 - 130)
4-Bromofluorobenzene	88	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

GC/MS Semivolatiles

Lot-Sample #...: H8F160170-002 **Work Order #...:** CJ2XV102 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/04/98
Prep Batch #...: 8168161
Dilution Factor: 10 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	100	ug/L
bis(2-Chloroethyl) ether	ND	100	ug/L
2-Chlorophenol	ND	100	ug/L
1,3-Dichlorobenzene	ND	100	ug/L
1,4-Dichlorobenzene	ND	100	ug/L
1,2-Dichlorobenzene	ND	100	ug/L
2-Methylphenol	ND	100	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	100	ug/L
4-Methylphenol	ND	100	ug/L
N-Nitrosodi-n-propylamine	ND	100	ug/L
Hexachloroethane	ND	100	ug/L
Nitrobenzene	ND	100	ug/L
Isophorone	ND	100	ug/L
2-Nitrophenol	ND	100	ug/L
2,4-Dimethylphenol	ND	100	ug/L
bis(2-Chloroethoxy) methane	ND	100	ug/L
2,4-Dichlorophenol	ND	100	ug/L
1,2,4-Trichlorobenzene	ND	100	ug/L
Naphthalene	ND	100	ug/L
4-Chloroaniline	ND	100	ug/L
Hexachlorobutadiene	ND	100	ug/L
4-Chloro-3-methylphenol	ND	100	ug/L
2-Methylnaphthalene	ND	100	ug/L
Hexachlorocyclopentadiene	ND	500	ug/L
2,4,6-Trichlorophenol	ND	100	ug/L
2,4,5-Trichlorophenol	ND	100	ug/L
2-Chloronaphthalene	ND	100	ug/L
2-Nitroaniline	ND	500	ug/L
Dimethyl phthalate	ND	100	ug/L
Acenaphthylene	ND	100	ug/L
2,6-Dinitrotoluene	**56 J**	**100**	**ug/L**
3-Nitroaniline	**15 J**	**500**	**ug/L**
Acenaphthene	ND	100	ug/L
2,4-Dinitrophenol	ND	500	ug/L
4-Nitrophenol	ND	500	ug/L
Dibenzofuran	ND	100	ug/L
2,4-Dinitrotoluene	**660**	**100**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

GC/MS Semivolatiles

Lot-Sample #...: H8F160170-002 **Work Order #...:** CJ2XV102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	100	ug/L
4-Chlorophenyl phenyl ether	ND	100	ug/L
Fluorene	ND	100	ug/L
4-Nitroaniline	ND	500	ug/L
4,6-Dinitro-2-methylphenol	ND	500	ug/L
N-Nitrosodiphenylamine	ND	100	ug/L
4-Bromophenyl phenyl ether	ND	100	ug/L
Hexachlorobenzene	ND	100	ug/L
Pentachlorophenol	ND	500	ug/L
Phenanthrene	ND	100	ug/L
Anthracene	ND	100	ug/L
Carbazole	ND	100	ug/L
Di-n-butyl phthalate	ND	100	ug/L
Fluoranthene	ND	100	ug/L
Pyrene	ND	100	ug/L
Butyl benzyl phthalate	ND	100	ug/L
3,3'-Dichlorobenzidine	ND	500	ug/L
Benzo(a)anthracene	ND	100	ug/L
Chrysene	ND	100	ug/L
bis(2-Ethylhexyl) phthalate	ND	100	ug/L
Di-n-octyl phthalate	ND	100	ug/L
Benzo(b)fluoranthene	ND	100	ug/L
Benzo(k)fluoranthene	ND	100	ug/L
Benzo(a)pyrene	ND	100	ug/L
Indeno(1,2,3-cd)pyrene	ND	100	ug/L
Dibenz(a,h)anthracene	ND	100	ug/L
Benzo(ghi)perylene	ND	100	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-001 **Work Order #...:** CJ344102 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-001 **Work Order #...:** CJ344102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	54	(27 - 106)
Phenol-d5	65	(27 - 111)
Nitrobenzene-d5	80	(37 - 115)
2-Fluorobiphenyl	66	(43 - 116)
2,4,6-Tribromophenol	50	(27 - 127)
Terphenyl-d14	36	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-002 **Work Order #...:** CJ345102 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	13	ug/L
bis(2-Chloroethyl) ether	ND	13	ug/L
2-Chlorophenol	ND	13	ug/L
1,3-Dichlorobenzene	ND	13	ug/L
1,4-Dichlorobenzene	ND	13	ug/L
1,2-Dichlorobenzene	ND	13	ug/L
2-Methylphenol	ND	13	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	13	ug/L
4-Methylphenol	ND	13	ug/L
N-Nitrosodi-n-propylamine	ND	13	ug/L
Hexachloroethane	ND	13	ug/L
Nitrobenzene	ND	13	ug/L
Isophorone	ND	13	ug/L
2-Nitrophenol	ND	13	ug/L
2,4-Dimethylphenol	ND	13	ug/L
bis(2-Chloroethoxy) methane	ND	13	ug/L
2,4-Dichlorophenol	ND	13	ug/L
1,2,4-Trichlorobenzene	ND	13	ug/L
Naphthalene	**1.9 J**	**13**	**ug/L**
4-Chloroaniline	ND	13	ug/L
Hexachlorobutadiene	ND	13	ug/L
4-Chloro-3-methylphenol	ND	13	ug/L
2-Methylnaphthalene	ND	13	ug/L
Hexachlorocyclopentadiene	ND	63	ug/L
2,4,6-Trichlorophenol	ND	13	ug/L
2,4,5-Trichlorophenol	ND	13	ug/L
2-Chloronaphthalene	ND	13	ug/L
2-Nitroaniline	ND	63	ug/L
Dimethyl phthalate	ND	13	ug/L
Acenaphthylene	ND	13	ug/L
2,6-Dinitrotoluene	ND	13	ug/L
3-Nitroaniline	ND	63	ug/L
Acenaphthene	ND	13	ug/L
2,4-Dinitrophenol	ND	63	ug/L
4-Nitrophenol	ND	63	ug/L
Dibenzofuran	ND	13	ug/L
2,4-Dinitrotoluene	ND	13	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-002 **Work Order #...:** CJ345102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	13	ug/L
4-Chlorophenyl phenyl ether	ND	13	ug/L
Fluorene	ND	13	ug/L
4-Nitroaniline	ND	63	ug/L
4,6-Dinitro-2-methylphenol	ND	63	ug/L
N-Nitrosodiphenylamine	ND	13	ug/L
4-Bromophenyl phenyl ether	ND	13	ug/L
Hexachlorobenzene	ND	13	ug/L
Pentachlorophenol	ND	63	ug/L
Phenanthrene	ND	13	ug/L
Anthracene	ND	13	ug/L
Carbazole	ND	13	ug/L
Di-n-butyl phthalate	ND	13	ug/L
Fluoranthene	ND	13	ug/L
Pyrene	ND	13	ug/L
Butyl benzyl phthalate	ND	13	ug/L
3,3'-Dichlorobenzidine	ND	63	ug/L
Benzo(a)anthracene	ND	13	ug/L
Chrysene	ND	13	ug/L
bis(2-Ethylhexyl) phthalate	ND	13	ug/L
Di-n-octyl phthalate	ND	13	ug/L
Benzo(b)fluoranthene	ND	13	ug/L
Benzo(k)fluoranthene	ND	13	ug/L
Benzo(a)pyrene	ND	13	ug/L
Indeno(1,2,3-cd)pyrene	ND	13	ug/L
Dibenz(a,h)anthracene	ND	13	ug/L
Benzo(ghi)perylene	ND	13	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(27 - 106)
Phenol-d5	56	(27 - 111)
Nitrobenzene-d5	70	(37 - 115)
2-Fluorobiphenyl	59	(43 - 116)
2,4,6-Tribromophenol	41	(27 - 127)
Terphenyl-d14	60	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-003 **Work Order #...:** CJ346102 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/04/98
Prep Batch #...: 8168161
Dilution Factor: 50 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	500	ug/L
bis(2-Chloroethyl) ether	ND	500	ug/L
2-Chlorophenol	ND	500	ug/L
1,3-Dichlorobenzene	ND	500	ug/L
1,4-Dichlorobenzene	ND	500	ug/L
1,2-Dichlorobenzene	ND	500	ug/L
2-Methylphenol	ND	500	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	500	ug/L
4-Methylphenol	ND	500	ug/L
N-Nitrosodi-n-propylamine	ND	500	ug/L
Hexachloroethane	ND	500	ug/L
Nitrobenzene	ND	500	ug/L
Isophorone	ND	500	ug/L
2-Nitrophenol	ND	500	ug/L
2,4-Dimethylphenol	ND	500	ug/L
bis(2-Chloroethoxy) methane	ND	500	ug/L
2,4-Dichlorophenol	ND	500	ug/L
1,2,4-Trichlorobenzene	ND	500	ug/L
Naphthalene	ND	500	ug/L
4-Chloroaniline	ND	500	ug/L
Hexachlorobutadiene	ND	500	ug/L
4-Chloro-3-methylphenol	ND	500	ug/L
2-Methylnaphthalene	ND	500	ug/L
Hexachlorocyclopentadiene	ND	2500	ug/L
2,4,6-Trichlorophenol	ND	500	ug/L
2,4,5-Trichlorophenol	ND	500	ug/L
2-Chloronaphthalene	ND	500	ug/L
2-Nitroaniline	ND	2500	ug/L
Dimethyl phthalate	ND	500	ug/L
Acenaphthylene	ND	500	ug/L
2,6-Dinitrotoluene	ND	500	ug/L
3-Nitroaniline	ND	2500	ug/L
Acenaphthene	ND	500	ug/L
2,4-Dinitrophenol	ND	2500	ug/L
4-Nitrophenol	ND	2500	ug/L
Dibenzofuran	ND	500	ug/L
2,4-Dinitrotoluene	ND	500	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-003 **Work Order #...:** CJ346102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	500	ug/L
4-Chlorophenyl phenyl ether	ND	500	ug/L
Fluorene	ND	500	ug/L
4-Nitroaniline	ND	2500	ug/L
4,6-Dinitro-2-methylphenol	ND	2500	ug/L
N-Nitrosodiphenylamine	ND	500	ug/L
4-Bromophenyl phenyl ether	ND	500	ug/L
Hexachlorobenzene	ND	500	ug/L
Pentachlorophenol	ND	2500	ug/L
Phenanthrene	ND	500	ug/L
Anthracene	ND	500	ug/L
Carbazole	ND	500	ug/L
Di-n-butyl phthalate	ND	500	ug/L
Fluoranthene	ND	500	ug/L
Pyrene	ND	500	ug/L
Butyl benzyl phthalate	ND	500	ug/L
3,3'-Dichlorobenzidine	ND	2500	ug/L
Benzo(a)anthracene	ND	500	ug/L
Chrysene	ND	500	ug/L
bis(2-Ethylhexyl) phthalate	ND	500	ug/L
Di-n-octyl phthalate	ND	500	ug/L
Benzo(b)fluoranthene	ND	500	ug/L
Benzo(k)fluoranthene	ND	500	ug/L
Benzo(a)pyrene	ND	500	ug/L
Indeno(1,2,3-cd)pyrene	ND	500	ug/L
Dibenz(a,h)anthracene	ND	500	ug/L
Benzo(ghi)perylene	ND	500	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-004 **Work Order #...:** CJ348102 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/04/98
Prep Batch #...: 8168161
Dilution Factor: 50 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	500	ug/L
bis(2-Chloroethyl) ether	ND	500	ug/L
2-Chlorophenol	ND	500	ug/L
1,3-Dichlorobenzene	ND	500	ug/L
1,4-Dichlorobenzene	ND	500	ug/L
1,2-Dichlorobenzene	ND	500	ug/L
2-Methylphenol	ND	500	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	500	ug/L
4-Methylphenol	ND	500	ug/L
N-Nitrosodi-n-propylamine	ND	500	ug/L
Hexachloroethane	ND	500	ug/L
Nitrobenzene	ND	500	ug/L
Isophorone	ND	500	ug/L
2-Nitrophenol	ND	500	ug/L
2,4-Dimethylphenol	ND	500	ug/L
bis(2-Chloroethoxy) methane	ND	500	ug/L
2,4-Dichlorophenol	ND	500	ug/L
1,2,4-Trichlorobenzene	ND	500	ug/L
Naphthalene	ND	500	ug/L
4-Chloroaniline	ND	500	ug/L
Hexachlorobutadiene	ND	500	ug/L
4-Chloro-3-methylphenol	ND	500	ug/L
2-Methylnaphthalene	ND	500	ug/L
Hexachlorocyclopentadiene	ND	2500	ug/L
2,4,6-Trichlorophenol	ND	500	ug/L
2,4,5-Trichlorophenol	ND	500	ug/L
2-Chloronaphthalene	ND	500	ug/L
2-Nitroaniline	ND	2500	ug/L
Dimethyl phthalate	ND	500	ug/L
Acenaphthylene	ND	500	ug/L
2,6-Dinitrotoluene	ND	500	ug/L
3-Nitroaniline	ND	2500	ug/L
Acenaphthene	ND	500	ug/L
2,4-Dinitrophenol	ND	2500	ug/L
4-Nitrophenol	ND	2500	ug/L
Dibenzofuran	ND	500	ug/L
2,4-Dinitrotoluene	**380 J**	**500**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-004 **Work Order #...:** CJ348102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	500	ug/L
4-Chlorophenyl phenyl ether	ND	500	ug/L
Fluorene	ND	500	ug/L
4-Nitroaniline	ND	2500	ug/L
4,6-Dinitro-2-methylphenol	ND	2500	ug/L
N-Nitrosodiphenylamine	ND	500	ug/L
4-Bromophenyl phenyl ether	ND	500	ug/L
Hexachlorobenzene	ND	500	ug/L
Pentachlorophenol	ND	2500	ug/L
Phenanthrene	ND	500	ug/L
Anthracene	ND	500	ug/L
Carbazole	ND	500	ug/L
Di-n-butyl phthalate	ND	500	ug/L
Fluoranthene	ND	500	ug/L
Pyrene	ND	500	ug/L
Butyl benzyl phthalate	ND	500	ug/L
3,3'-Dichlorobenzidine	ND	2500	ug/L
Benzo(a)anthracene	ND	500	ug/L
Chrysene	ND	500	ug/L
bis(2-Ethylhexyl) phthalate	ND	500	ug/L
Di-n-octyl phthalate	ND	500	ug/L
Benzo(b)fluoranthene	ND	500	ug/L
Benzo(k)fluoranthene	ND	500	ug/L
Benzo(a)pyrene	ND	500	ug/L
Indeno(1,2,3-cd)pyrene	ND	500	ug/L
Dibenz(a,h)anthracene	ND	500	ug/L
Benzo(ghi)perylene	ND	500	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-005 **Work Order #...:** CJ349104 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-005 **Work Order #...:** CJ349104 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	48	(27 - 106)
Phenol-d5	60	(27 - 111)
Nitrobenzene-d5	66	(37 - 115)
2-Fluorobiphenyl	66	(43 - 116)
2,4,6-Tribromophenol	83	(27 - 127)
Terphenyl-d14	68	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8000

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-006 **Work Order #...:** CJ34A102 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8000

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-006 **Work Order #...:** CJ34A102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(27 - 106)
Phenol-d5	70	(27 - 111)
Nitrobenzene-d5	76	(37 - 115)
2-Fluorobiphenyl	79	(43 - 116)
2,4,6-Tribromophenol	89	(27 - 127)
Terphenyl-d14	102	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8020

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-007 **Work Order #...:** CJ34C102 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8168161
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8020

GC/MS Semivolatiles

Lot-Sample #...: H8F160181-007 **Work Order #...:** CJ34C102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(27 - 106)
Phenol-d5	72	(27 - 111)
Nitrobenzene-d5	72	(37 - 115)
2-Fluorobiphenyl	70	(43 - 116)
2,4,6-Tribromophenol	87	(27 - 127)
Terphenyl-d14	89	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

GC/MS Semivolatiles

Lot-Sample #...: H8F170165-002 **Work Order #...:** CJ3QW102 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/22/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8173152
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	**6.3 J**	**10**	**ug/L**
3-Nitroaniline	**5.1 J**	**50**	**ug/L**
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	**2.4 J**	**50**	**ug/L**
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**60**	**10**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

GC/MS Semivolatiles

Lot-Sample #...: H8F170165-002 **Work Order #...:** CJ3QW102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	**24 J**	**50**	**ug/L**
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(27 - 106)
Phenol-d5	71	(27 - 111)
Nitrobenzene-d5	77	(37 - 115)
2-Fluorobiphenyl	72	(43 - 116)
2,4,6-Tribromophenol	81	(27 - 127)
Terphenyl-d14	56	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ39H101 **Matrix.....:** WATER
MB Lot-Sample #: H8F170000-161

Prep Date.....: 06/17/98
Analysis Date..: 07/01/98 **Prep Batch #...:** 8168161
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
Acenaphthene	ND	10	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ39H101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	10	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(27 - 106)
Phenol-d5	66	(27 - 111)
Nitrobenzene-d5	76	(37 - 115)
2-Fluorobiphenyl	76	(43 - 116)
2,4,6-Tribromophenol	77	(27 - 127)
Terphenyl-d14	85	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ349105-MS **Matrix.....:** WATER
MS Lot-Sample #: H8F160181-005 CJ349106-MSD
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/04/98
Prep Batch #...: 8168161
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**72**	**(16 - 116)**			**SW846 8270B**
	76	**(16 - 116)**	**5.7**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**79**	**(31 - 109)**			**SW846 8270B**
	82	**(31 - 109)**	**3.8**	**(0-20)**	**SW846 8270B**
1,4-Dichlorobenzene	**68**	**(40 - 100)**			**SW846 8270B**
	72	**(40 - 100)**	**4.5**	**(0-26)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**68**	**(22 - 125)**			**SW846 8270B**
	75	**(22 - 125)**	**9.2**	**(0-27)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**77**	**(43 - 100)**			**SW846 8270B**
	82	**(43 - 100)**	**5.8**	**(0-29)**	**SW846 8270B**
4-Chloro-3-methylphenol	**78**	**(48 - 110)**			**SW846 8270B**
	87	**(48 - 110)**	**11**	**(0-20)**	**SW846 8270B**
Acenaphthene	**75**	**(54 - 113)**			**SW846 8270B**
	90	**(54 - 113)**	**19**	**(0-20)**	**SW846 8270B**
4-Nitrophenol	**85**	**(13 - 135)**			**SW846 8270B**
	98	**(13 - 135)**	**14**	**(0-21)**	**SW846 8270B**
2,4-Dinitrotoluene	**84**	**(59 - 120)**			**SW846 8270B**
	98	**(59 - 120)**	**15**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**62**	**(20 - 133)**			**SW846 8270B**
	93 p	**(20 - 133)**	**41**	**(0-31)**	**SW846 8270B**
Pyrene	**53**	**(46 - 122)**			**SW846 8270B**
	101 p	**(46 - 122)**	**63**	**(0-26)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(27 - 106)
	60	(27 - 106)
Phenol-d5	72	(27 - 111)
	76	(27 - 111)
Nitrobenzene-d5	72	(37 - 115)
	76	(37 - 115)
2-Fluorobiphenyl	65	(43 - 116)
	74	(43 - 116)
2,4,6-Tribromophenol	71	(27 - 127)
	81	(27 - 127)
Terphenyl-d14	31 *	(33 - 141)
	64	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ39H102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F170000-161
Prep Date.....: 06/17/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8168161
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**71**	**(28 - 113)**	**SW846 8270B**
2-Chlorophenol	**79**	**(52 - 103)**	**SW846 8270B**
1,4-Dichlorobenzene	**69**	**(40 - 100)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**77**	**(22 - 125)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**83**	**(49 - 100)**	**SW846 8270B**
4-Chloro-3-methylphenol	**82**	**(54 - 110)**	**SW846 8270B**
Acenaphthene	**86**	**(58 - 113)**	**SW846 8270B**
4-Nitrophenol	**74**	**(18 - 135)**	**SW846 8270B**
2,4-Dinitrotoluene	**97**	**(59 - 120)**	**SW846 8270B**
Pentachlorophenol	**92**	**(20 - 123)**	**SW846 8270B**
Pyrene	**98**	**(54 - 122)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(27 - 106)
Phenol-d5	73	(27 - 111)
Nitrobenzene-d5	78	(37 - 115)
2-Fluorobiphenyl	73	(43 - 116)
2,4,6-Tribromophenol	91	(27 - 127)
Terphenyl-d14	95	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ706101 **Matrix.....:** WATER
MB Lot-Sample #: H8F220000-152

Prep Date.....: 06/22/98
Analysis Date..: 07/04/98 **Prep Batch #...:** 8173152
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
Acenaphthene	ND	10	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ706101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	10	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(27 - 106)
Phenol-d5	79	(27 - 111)
Nitrobenzene-d5	77	(37 - 115)
2-Fluorobiphenyl	77	(43 - 116)
2,4,6-Tribromophenol	78	(27 - 127)
Terphenyl-d14	89	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ706102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F220000-152
Prep Date.....: 06/22/98 **Analysis Date..:** 07/04/98
Prep Batch #...: 8173152
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**67**	**(28 - 113)**	**SW846 8270B**
2-Chlorophenol	**76**	**(52 - 103)**	**SW846 8270B**
1,4-Dichlorobenzene	**64**	**(40 - 100)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**71**	**(22 - 125)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**73**	**(49 - 100)**	**SW846 8270B**
4-Chloro-3-methylphenol	**77**	**(54 - 110)**	**SW846 8270B**
Acenaphthene	**80**	**(58 - 113)**	**SW846 8270B**
4-Nitrophenol	**75**	**(18 - 135)**	**SW846 8270B**
2,4-Dinitrotoluene	**84**	**(59 - 120)**	**SW846 8270B**
Pentachlorophenol	**81**	**(20 - 123)**	**SW846 8270B**
Pyrene	**93**	**(54 - 122)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	65	(27 - 106)
Phenol-d5	79	(27 - 111)
Nitrobenzene-d5	83	(37 - 115)
2-Fluorobiphenyl	79	(43 - 116)
2,4,6-Tribromophenol	81	(27 - 127)
Terphenyl-d14	91	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

GC Semivolatiles

Lot-Sample #...:	H8F160170-002	**Work Order #...:**	CJ2XV103	**Matrix.....:**	WATER
Date Sampled...:	06/15/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/19/98	**Analysis Date..:**	07/08/98		
Prep Batch #...:	8170150				
Dilution Factor:	10	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	10	ug/L
Aroclor 1221	ND	10	ug/L
Aroclor 1232	ND	10	ug/L
Aroclor 1242	ND	10	ug/L
Aroclor 1248	ND	10	ug/L
Aroclor 1254	ND	10	ug/L
Aroclor 1260	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(30 - 133)
Decachlorobiphenyl	NC,DIL	(30 - 139)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

GC Semivolatiles

Lot-Sample #...: H8F160181-001 **Work Order #...:** CJ344103 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	100	(30 - 133)
Decachlorobiphenyl	49	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

GC Semivolatiles

Lot-Sample #...: H8F160181-002 **Work Order #...:** CJ345103 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(30 - 133)
Decachlorobiphenyl	45	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

GC Semivolatiles

Lot-Sample #...: H8F160181-003 **Work Order #...:** CJ346103 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(30 - 133)
Decachlorobiphenyl	37	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

GC Semivolatiles

Lot-Sample #...: H8F160181-005 **Work Order #...:** CJ349107 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(30 - 133)
Decachlorobiphenyl	63	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8000

GC Semivolatiles

Lot-Sample #...: H8F160181-006 **Work Order #...:** CJ34A103 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(30 - 133)
Decachlorobiphenyl	81	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8020

GC Semivolatiles

Lot-Sample #...: H8F160181-007 **Work Order #...:** CJ34C103 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(30 - 133)
Decachlorobiphenyl	68	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

GC Semivolatiles

Lot-Sample #...: H8F170165-002 **Work Order #...:** CJ3QW103 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 5 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	5.0	ug/L
Aroclor 1221	ND	5.0	ug/L
Aroclor 1232	ND	5.0	ug/L
Aroclor 1242	ND	5.0	ug/L
Aroclor 1248	ND	5.0	ug/L
Aroclor 1254	ND	5.0	ug/L
Aroclor 1260	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	343 *	(30 - 133)
Decachlorobiphenyl	39	(30 - 139)

NOTE(S):

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ5AN101 **Matrix.....:** WATER
MB Lot-Sample #: H8F190000-150

Prep Date.....: 06/19/98
Analysis Date..: 07/08/98 **Prep Batch #...:** 8170150
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8081
Aroclor 1221	ND	1.0	ug/L	SW846 8081
Aroclor 1232	ND	1.0	ug/L	SW846 8081
Aroclor 1242	ND	1.0	ug/L	SW846 8081
Aroclor 1248	ND	1.0	ug/L	SW846 8081
Aroclor 1254	ND	1.0	ug/L	SW846 8081
Aroclor 1260	ND	1.0	ug/L	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(30 - 133)
Decachlorobiphenyl	71	(30 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ349108-MS **Matrix.....:** WATER
MS Lot-Sample #: H8F160181-005 CJ349109-MSD
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**110**	**(70 - 158)**			**SW846 8081**
	110	**(70 - 158)**	**0.38**	**(0-25)**	**SW846 8081**
Aroclor 1260	**86**	**(70 - 158)**			**SW846 8081**
	88	**(70 - 158)**	**2.7**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	125	(30 - 133)
	98	(30 - 133)
Decachlorobiphenyl	52	(30 - 139)
	62	(30 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB031 **Work Order #...:** CJ5AN102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F190000-150
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170150
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**105**	**(70 - 158)**	**SW846 8081**
Aroclor 1260	**86**	**(70 - 158)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(30 - 133)
Decachlorobiphenyl	74	(30 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8570

HPLC

Lot-Sample #...: H8F160170-001 **Work Order #...:** CJ2XJ102 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/22/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8173137
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**0.69**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**2.0**	**0.20**	**ug/L**
2,6-Dinitrotoluene	**0.25**	**0.20**	**ug/L**
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	90	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

HPLC

Lot-Sample #...:	H8F160170-002	**Work Order #...:**	CJ2XV104	**Matrix.....:**	WATER
Date Sampled...:	06/15/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/22/98	**Analysis Date..:**	07/08/98		
Prep Batch #...:	8173137				
Dilution Factor:	200	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND G	54	ug/L
1,3-Dinitrobenzene	**270**	**40**	**ug/L**
2,4-Dinitrotoluene	**950**	**40**	**ug/L**
2,6-Dinitrotoluene	ND	40	ug/L
HMX	ND	100	ug/L
Nitrobenzene	ND	40	ug/L
2-Nitrotoluene	ND	40	ug/L
3-Nitrotoluene	ND G	79	ug/L
RDX	ND	100	ug/L
Tetryl	ND	40	ug/L
1,3,5-Trinitrobenzene	**680**	**40**	**ug/L**
2,4,6-Trinitrotoluene	ND G	46	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

HPLC

Lot-Sample #...:	H8F160181-001	**Work Order #...:**	CJ344104	**Matrix.....:**	WATER
Date Sampled...:	06/14/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/19/98	**Analysis Date..:**	06/30/98		
Prep Batch #...:	8170222				
Dilution Factor:	10	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	2.0	ug/L
1,3-Dinitrobenzene	ND	2.0	ug/L
2,4-Dinitrotoluene	ND	2.0	ug/L
2,6-Dinitrotoluene	ND	2.0	ug/L
HMX	ND	5.0	ug/L
Nitrobenzene	ND	2.0	ug/L
2-Nitrotoluene	ND	2.0	ug/L
3-Nitrotoluene	ND	2.0	ug/L
RDX	ND	5.0	ug/L
Tetryl	ND	2.0	ug/L
1,3,5-Trinitrobenzene	ND G	2.3	ug/L
2,4,6-Trinitrotoluene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

HPLC

Lot-Sample #...:	H8F160181-002	**Work Order #...:**	CJ345104	**Matrix.....:**	WATER
Date Sampled...:	06/14/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/19/98	**Analysis Date..:**	06/30/98		
Prep Batch #...:	8170222				
Dilution Factor:	50	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	10	ug/L
1,3-Dinitrobenzene	ND	10	ug/L
2,4-Dinitrotoluene	ND G	11	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
HMX	ND	25	ug/L
Nitrobenzene	ND	10	ug/L
2-Nitrotoluene	ND	10	ug/L
3-Nitrotoluene	ND	10	ug/L
RDX	ND	25	ug/L
Tetryl	ND	10	ug/L
1,3,5-Trinitrobenzene	ND G	14	ug/L
2,4,6-Trinitrotoluene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

HPLC

Lot-Sample #...: H8F160181-003 **Work Order #...:** CJ346104 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8170222
Dilution Factor: 100 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	20	ug/L
1,3-Dinitrobenzene	ND	20	ug/L
2,4-Dinitrotoluene	ND G	28	ug/L
2,6-Dinitrotoluene	ND	20	ug/L
HMX	ND	50	ug/L
Nitrobenzene	ND	20	ug/L
2-Nitrotoluene	ND	20	ug/L
3-Nitrotoluene	ND	20	ug/L
RDX	ND	50	ug/L
Tetryl	ND	20	ug/L
1,3,5-Trinitrobenzene	870 G	40	ug/L
2,4,6-Trinitrotoluene	ND	20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

HPLC

Lot-Sample #...: H8F160181-005 **Work Order #...:** CJ34910A **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8170222
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	88	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8000

HPLC

Lot-Sample #...: H8F160181-006 **Work Order #...:** CJ34A104 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8170222
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8020

HPLC

Lot-Sample #...: H8F160181-007 **Work Order #...:** CJ34C104 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8170222
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8410

HPLC

Lot-Sample #...: H8F170165-001 **Work Order #...:** CJ3QT102 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8170222
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**0.74**	**0.20**	**ug/L**
2,4-Dinitrotoluene	**2.3**	**0.20**	**ug/L**
2,6-Dinitrotoluene	**0.28**	**0.20**	**ug/L**
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

HPLC

Lot-Sample #...:	H8F170165-002	**Work Order #...:**	CJ3QW104	**Matrix.....:**	WATER
Date Sampled...:	06/16/98	**Date Received..:**	06/17/98		
Prep Date.....:	06/19/98	**Analysis Date..:**	06/30/98		
Prep Batch #...:	8170222				
Dilution Factor:	10	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND G	5.3	ug/L
1,3-Dinitrobenzene	**8.6**	**2.0**	**ug/L**
2,4-Dinitrotoluene	**28**	**2.0**	**ug/L**
2,6-Dinitrotoluene	**2.7**	**2.0**	**ug/L**
HMX	ND	5.0	ug/L
Nitrobenzene	ND	2.0	ug/L
2-Nitrotoluene	ND	2.0	ug/L
3-Nitrotoluene	ND	2.0	ug/L
RDX	ND	5.0	ug/L
Tetryl	ND	2.0	ug/L
1,3,5-Trinitrobenzene	**9.4**	**2.0**	**ug/L**
2,4,6-Trinitrotoluene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

METHOD BLANK REPORT

HPLC

Client Lot #...: PB031 **Work Order #...:** CJ5P4101 **Matrix.....:** WATER
MB Lot-Sample #: H8F190000-222

Prep Date.....: 06/19/98
Analysis Date..: 06/30/98 **Prep Batch #...:** 8170222
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	99	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB031 **Work Order #...:** CJ34910C-MS **Matrix.....:** WATER
MS Lot-Sample #: H8F160181-005 CJ34910D-MSD
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8170222
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	**90**	**(53 - 153)**			**SW846 8330**
	93	**(53 - 153)**	**3.0**	**(0-21)**	**SW846 8330**
4-Nitrotoluene	**89**	**(35 - 163)**			**SW846 8330**
	88	**(35 - 163)**	**1.0**	**(0-25)**	**SW846 8330**
HMX	**82**	**(61 - 124)**			**SW846 8330**
	84	**(61 - 124)**	**2.1**	**(0-23)**	**SW846 8330**
RDX	**94**	**(82 - 159)**			**SW846 8330**
	96	**(82 - 159)**	**2.2**	**(0-30)**	**SW846 8330**
1,3,5-Trinitrobenzene	**96**	**(66 - 155)**			**SW846 8330**
	100	**(66 - 155)**	**3.7**	**(0-18)**	**SW846 8330**
1,3-Dinitrobenzene	**92**	**(78 - 145)**			**SW846 8330**
	96	**(78 - 145)**	**3.6**	**(0-25)**	**SW846 8330**
Tetryl	**78**	**(47 - 140)**			**SW846 8330**
	81	**(47 - 140)**	**3.5**	**(0-35)**	**SW846 8330**
Nitrobenzene	**89**	**(69 - 140)**			**SW846 8330**
	88	**(69 - 140)**	**0.47**	**(0-20)**	**SW846 8330**
2,4,6-Trinitrotoluene	**82**	**(44 - 156)**			**SW846 8330**
	86	**(44 - 156)**	**4.8**	**(0-24)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**90**	**(36 - 162)**			**SW846 8330**
	93	**(36 - 162)**	**3.3**	**(0-23)**	**SW846 8330**
2,6-Dinitrotoluene	**90**	**(66 - 150)**			**SW846 8330**
	93	**(66 - 150)**	**3.3**	**(0-19)**	**SW846 8330**
2,4-Dinitrotoluene	**91**	**(63 - 161)**			**SW846 8330**
	94	**(63 - 161)**	**2.8**	**(0-19)**	**SW846 8330**
2-Nitrotoluene	**86**	**(45 - 149)**			**SW846 8330**
	86	**(45 - 149)**	**0.18**	**(0-24)**	**SW846 8330**
3-Nitrotoluene	**88**	**(55 - 138)**			**SW846 8330**
	86	**(55 - 138)**	**1.7**	**(0-23)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(39 - 157)
	94	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB031 **Work Order #...:** CJ5P4102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F190000-222
Prep Date.....: 06/19/98 **Analysis Date..:** 06/30/98
Prep Batch #...: 8170222
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**85**	**(67 - 123)**	**SW846 8330**
RDX	**95**	**(85 - 157)**	**SW846 8330**
1,3,5-Trinitrobenzene	**100**	**(80 - 141)**	**SW846 8330**
1,3-Dinitrobenzene	**95**	**(81 - 142)**	**SW846 8330**
Tetryl	**83**	**(55 - 140)**	**SW846 8330**
Nitrobenzene	**93**	**(69 - 140)**	**SW846 8330**
2,4,6-Trinitrotoluene	**86**	**(69 - 146)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**91**	**(75 - 130)**	**SW846 8330**
2,6-Dinitrotoluene	**93**	**(74 - 135)**	**SW846 8330**
2,4-Dinitrotoluene	**93**	**(77 - 135)**	**SW846 8330**
2-Nitrotoluene	**90**	**(58 - 136)**	**SW846 8330**
3-Nitrotoluene	**91**	**(64 - 126)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**91**	**(80 - 131)**	**SW846 8330**
4-Nitrotoluene	**92**	**(69 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: PB031 **Work Order #...:** CJ6XL101 **Matrix.....:** WATER
MB Lot-Sample #: H8F220000-137

Prep Date.....: 06/22/98
Analysis Date..: 06/30/98 **Prep Batch #...:** 8173137
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.20	ug/L	SW846 8330
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB031 **Work Order #...:** CJ6XL102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8F220000-137 CJ6XL103-LCSD
Prep Date.....: 06/22/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8173137
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**85**	**(67 - 123)**			**SW846 8330**
	87	**(67 - 123)**	**2.2**	**(0-23)**	**SW846 8330**
RDX	**108**	**(85 - 157)**			**SW846 8330**
	111	**(85 - 157)**	**2.6**	**(0-30)**	**SW846 8330**
1,3,5-Trinitrobenzene	**100**	**(80 - 141)**			**SW846 8330**
	103	**(80 - 141)**	**2.7**	**(0-18)**	**SW846 8330**
1,3-Dinitrobenzene	**104**	**(81 - 142)**			**SW846 8330**
	105	**(81 - 142)**	**1.6**	**(0-25)**	**SW846 8330**
Tetryl	**85**	**(55 - 140)**			**SW846 8330**
	88	**(55 - 140)**	**2.8**	**(0-35)**	**SW846 8330**
Nitrobenzene	**101**	**(69 - 140)**			**SW846 8330**
	104	**(69 - 140)**	**2.3**	**(0-20)**	**SW846 8330**
2,4,6-Trinitrotoluene	**92**	**(69 - 146)**			**SW846 8330**
	93	**(69 - 146)**	**1.2**	**(0-24)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**104**	**(75 - 130)**			**SW846 8330**
	108	**(75 - 130)**	**3.7**	**(0-23)**	**SW846 8330**
2,6-Dinitrotoluene	**93**	**(74 - 135)**			**SW846 8330**
	98	**(74 - 135)**	**5.2**	**(0-19)**	**SW846 8330**
2,4-Dinitrotoluene	**99**	**(77 - 135)**			**SW846 8330**
	102	**(77 - 135)**	**3.2**	**(0-19)**	**SW846 8330**
2-Nitrotoluene	**97**	**(58 - 136)**			**SW846 8330**
	101	**(58 - 136)**	**3.2**	**(0-24)**	**SW846 8330**
3-Nitrotoluene	**99**	**(64 - 126)**			**SW846 8330**
	99	**(64 - 126)**	**0.19**	**(0-23)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**104**	**(80 - 131)**			**SW846 8330**
	108	**(80 - 131)**	**3.9**	**(0-21)**	**SW846 8330**
4-Nitrotoluene	**98**	**(69 - 122)**			**SW846 8330**
	99	**(69 - 122)**	**0.28**	**(0-25)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(39 - 157)
	102	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

TOTAL Metals

Lot-Sample #...: H8F160170-002 Matrix.....: WATER
Date Sampled...: 06/15/98 Date Received..: 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	0.65	0.20	ug/L	SW846 7470A	07/01/98	CJ2XV10V
		Dilution Factor: 1		Analysis Time..: 19:00		
Prep Batch #...: 8182115						
Aluminum	77200	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV105
		Dilution Factor: 10		Analysis Time..: 15:40		
Arsenic	1780	100	ug/L	SW846 6010A	07/01-07/11/98	CJ2XV10Q
		Dilution Factor: 10		Analysis Time..: 12:16		
Lead	459	30.0	ug/L	SW846 6010A	07/01-07/11/98	CJ2XV10R
		Dilution Factor: 10		Analysis Time..: 12:16		
Antimony	ND	600	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV106
		Dilution Factor: 10		Analysis Time..: 15:40		
Barium	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV107
		Dilution Factor: 10		Analysis Time..: 15:40		
Selenium	1790	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ2XV10T
		Dilution Factor: 10		Analysis Time..: 12:16		
Beryllium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV108
		Dilution Factor: 10		Analysis Time..: 15:40		
Thallium	1770	100	ug/L	SW846 6010A	07/01-07/11/98	CJ2XV10U
		Dilution Factor: 10		Analysis Time..: 12:16		
Cadmium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV109
		Dilution Factor: 10		Analysis Time..: 15:40		
Calcium	315000	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV10A
		Dilution Factor: 10		Analysis Time..: 15:40		
Chromium	127	100	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV10C
		Dilution Factor: 10		Analysis Time..: 15:40		
Cobalt	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV10D
		Dilution Factor: 10		Analysis Time..: 15:40		
Copper	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV10E
		Dilution Factor: 10		Analysis Time..: 15:40		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

TOTAL Metals

Lot-Sample #...: H8F160170-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**153000**	**1000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ2XV10F**
		Dilution Factor: 10		Analysis Time..: 15:40		
Magnesium	**86200**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ2XV10G**
		Dilution Factor: 10		Analysis Time..: 15:40		
Manganese	**12600**	**150**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ2XV10H**
		Dilution Factor: 10		Analysis Time..: 15:40		
Nickel	ND	400	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV10J
		Dilution Factor: 10		Analysis Time..: 15:40		
Potassium	ND	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV10K
		Dilution Factor: 10		Analysis Time..: 15:40		
Sodium	**187000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ2XV10M**
		Dilution Factor: 10		Analysis Time..: 15:40		
Vanadium	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ2XV10N
		Dilution Factor: 10		Analysis Time..: 15:40		
Zinc	**397**	**200**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ2XV10P**
		Dilution Factor: 10		Analysis Time..: 15:40		

Prep Batch #...: 8192142

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ2XV20L
		Dilution Factor: 1		Analysis Time..: 13:02		

IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

DISSOLVED Metals

Lot-Sample #...: H8F160170-004 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ30X10Q
		Dilution Factor: 1		Analysis Time..: 18:29		
Prep Batch #...: 8182120						
Aluminum	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ30X101
		Dilution Factor: 10		Analysis Time..: 14:23		
Arsenic	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ30X10L
		Dilution Factor: 10		Analysis Time..: 13:47		
Lead	ND	30.0	ug/L	SW846 6010A	07/01-07/11/98	CJ30X10M
		Dilution Factor: 10		Analysis Time..: 13:47		
Antimony	ND	600	ug/L	SW846 6010A	07/01-07/02/98	CJ30X102
		Dilution Factor: 10		Analysis Time..: 14:23		
Barium	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ30X103
		Dilution Factor: 10		Analysis Time..: 14:23		
Selenium	ND	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ30X10N
		Dilution Factor: 10		Analysis Time..: 13:47		
Beryllium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ30X104
		Dilution Factor: 10		Analysis Time..: 14:23		
Thallium	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ30X10P
		Dilution Factor: 10		Analysis Time..: 13:47		
Cadmium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ30X105
		Dilution Factor: 10		Analysis Time..: 14:23		
Calcium	**156000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ30X106**
		Dilution Factor: 10		Analysis Time..: 14:23		
Chromium	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJ30X107
		Dilution Factor: 10		Analysis Time..: 14:23		
Cobalt	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ30X108
		Dilution Factor: 10		Analysis Time..: 14:23		
Copper	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ30X109
		Dilution Factor: 10		Analysis Time..: 14:23		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

DISSOLVED Metals

Lot-Sample #...: H8F160170-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	1000	ug/L	SW846 6010A	07/01-07/02/98	CJ30X10A
		Dilution Factor: 10		Analysis Time..: 14:23		
Magnesium	ND	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ30X10C
		Dilution Factor: 10		Analysis Time..: 14:23		
Manganese	**7870**	**150**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ30X10D**
		Dilution Factor: 10		Analysis Time..: 14:23		
Nickel	ND	400	ug/L	SW846 6010A	07/01-07/02/98	CJ30X10E
		Dilution Factor: 10		Analysis Time..: 14:23		
Potassium	ND	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ30X10F
		Dilution Factor: 10		Analysis Time..: 14:23		
Sodium	**192000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ30X10H**
		Dilution Factor: 10		Analysis Time..: 14:23		
Vanadium	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ30X10J
		Dilution Factor: 10		Analysis Time..: 14:23		
Zinc	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ30X10K
		Dilution Factor: 10		Analysis Time..: 14:23		

Prep Batch #...: 8192141

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ30X20G
		Dilution Factor: 1		Analysis Time..: 12:03		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

TOTAL Metals

Lot-Sample #...: H8F160181-001 Matrix.....: WATER
Date Sampled...: 06/14/98 Date Received..: 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	**0.23**	**0.20**	**ug/L**	**SW846 7470A**	**07/01/98**	**CJ34410V**
		Dilution Factor: 1		Analysis Time..: 19:03		
Prep Batch #...: 8182115						
Aluminum	**52200**	**1000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ344105**
		Dilution Factor: 5		Analysis Time..: 15:45		
Arsenic	**63.3**	**50.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ34410Q**
		Dilution Factor: 5		Analysis Time..: 12:21		
Lead	**42.6**	**15.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ34410R**
		Dilution Factor: 5		Analysis Time..: 12:21		
Antimony	ND	300	ug/L	SW846 6010A	07/01-07/02/98	CJ344106
		Dilution Factor: 5		Analysis Time..: 15:45		
Barium	ND	1000	ug/L	SW846 6010A	07/01-07/02/98	CJ344107
		Dilution Factor: 5		Analysis Time..: 15:45		
Selenium	ND	25.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34410T
		Dilution Factor: 5		Analysis Time..: 12:21		
Beryllium	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ344108
		Dilution Factor: 5		Analysis Time..: 15:45		
Thallium	ND	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34410U
		Dilution Factor: 5		Analysis Time..: 12:21		
Cadmium	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ344109
		Dilution Factor: 5		Analysis Time..: 15:45		
Calcium	**221000**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34410A**
		Dilution Factor: 5		Analysis Time..: 15:45		
Chromium	**113**	**50.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34410C**
		Dilution Factor: 5		Analysis Time..: 15:45		
Cobalt	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ34410D
		Dilution Factor: 5		Analysis Time..: 15:45		
Copper	ND	125	ug/L	SW846 6010A	07/01-07/02/98	CJ34410E
		Dilution Factor: 5		Analysis Time..: 15:45		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

TOTAL Metals

Lot-Sample #...: H8F160181-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**100000**	**500**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34410F**
		Dilution Factor: 5		Analysis Time..: 15:45		
Magnesium	**66300**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34410G**
		Dilution Factor: 5		Analysis Time..: 15:45		
Manganese	**1120**	**75.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34410H**
		Dilution Factor: 5		Analysis Time..: 15:45		
Nickel	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34410J
		Dilution Factor: 5		Analysis Time..: 15:45		
Potassium	ND	25000	ug/L	SW846 6010A	07/01-07/02/98	CJ34410K
		Dilution Factor: 5		Analysis Time..: 15:45		
Sodium	**266000**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34410M**
		Dilution Factor: 5		Analysis Time..: 15:45		
Vanadium	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ34410N
		Dilution Factor: 5		Analysis Time..: 15:45		
Zinc	**299**	**100**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34410P**
		Dilution Factor: 5		Analysis Time..: 15:45		

Prep Batch #...: 8192142

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34420L
		Dilution Factor: 1		Analysis Time..: 13:07		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

DISSOLVED Metals

Lot-Sample #...: H8F160181-009 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ34E10Q
		Dilution Factor: 1		Analysis Time..: 18:31		
Prep Batch #...: 8182120						
Aluminum	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34E101
		Dilution Factor: 1		Analysis Time..: 14:37		
Arsenic	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34E10L
		Dilution Factor: 1		Analysis Time..: 13:52		
Lead	ND	3.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34E10M
		Dilution Factor: 1		Analysis Time..: 13:52		
Antimony	ND	60.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E102
		Dilution Factor: 1		Analysis Time..: 14:37		
Barium	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34E103
		Dilution Factor: 1		Analysis Time..: 14:37		
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34E10N
		Dilution Factor: 1		Analysis Time..: 13:52		
Beryllium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E104
		Dilution Factor: 1		Analysis Time..: 14:37		
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34E10P
		Dilution Factor: 1		Analysis Time..: 13:52		
Cadmium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E105
		Dilution Factor: 1		Analysis Time..: 14:37		
Calcium	**193000**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34E106**
		Dilution Factor: 1		Analysis Time..: 14:37		
Chromium	ND	10.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E107
		Dilution Factor: 1		Analysis Time..: 14:37		
Cobalt	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E108
		Dilution Factor: 1		Analysis Time..: 14:37		
Copper	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E109
		Dilution Factor: 1		Analysis Time..: 14:37		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

DISSOLVED Metals

Lot-Sample #...: H8F160181-009 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**150**	**100**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34E10A**
		Dilution Factor: 1		Analysis Time..: 14:37		
Magnesium	**44400**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34E10C**
		Dilution Factor: 1		Analysis Time..: 14:37		
Manganese	**257**	**15.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34E10D**
		Dilution Factor: 1		Analysis Time..: 14:37		
Nickel	ND	40.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E10E
		Dilution Factor: 1		Analysis Time..: 14:37		
Potassium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34E10F
		Dilution Factor: 1		Analysis Time..: 14:37		
Sodium	**288000**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34E10H**
		Dilution Factor: 1		Analysis Time..: 14:37		
Vanadium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E10J
		Dilution Factor: 1		Analysis Time..: 14:37		
Zinc	ND	20.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34E10K
		Dilution Factor: 1		Analysis Time..: 14:37		

Prep Batch #...: 8192141

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34E20G
		Dilution Factor: 1		Analysis Time..: 12:08		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

TOTAL Metals

Lot-Sample #...: H8F160181-002 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ34510V
		Dilution Factor: 1		Analysis Time..: 19:05		
Prep Batch #...: 8182115						
Aluminum	**32700**	**1000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ345105**
		Dilution Factor: 5		Analysis Time..: 15:50		
Arsenic	**53.9**	**50.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ34510Q**
		Dilution Factor: 5		Analysis Time..: 12:27		
Lead	**48.4**	**15.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ34510R**
		Dilution Factor: 5		Analysis Time..: 12:27		
Antimony	ND	300	ug/L	SW846 6010A	07/01-07/02/98	CJ345106
		Dilution Factor: 5		Analysis Time..: 15:50		
Barium	ND	1000	ug/L	SW846 6010A	07/01-07/02/98	CJ345107
		Dilution Factor: 5		Analysis Time..: 15:50		
Selenium	ND	25.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34510T
		Dilution Factor: 5		Analysis Time..: 12:27		
Beryllium	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ345108
		Dilution Factor: 5		Analysis Time..: 15:50		
Thallium	ND	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34510U
		Dilution Factor: 5		Analysis Time..: 12:27		
Cadmium	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ345109
		Dilution Factor: 5		Analysis Time..: 15:50		
Calcium	**606000**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34510A**
		Dilution Factor: 5		Analysis Time..: 15:50		
Chromium	**82.6**	**50.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34510C**
		Dilution Factor: 5		Analysis Time..: 15:50		
Cobalt	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ34510D
		Dilution Factor: 5		Analysis Time..: 15:50		
Copper	ND	125	ug/L	SW846 6010A	07/01-07/02/98	CJ34510E
		Dilution Factor: 5		Analysis Time..: 15:50		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

TOTAL Metals

Lot-Sample #...: H8F160181-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**98200**	**500**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34510F**
		Dilution Factor: 5		Analysis Time..: 15:50		
Magnesium	**204000**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34510G**
		Dilution Factor: 5		Analysis Time..: 15:50		
Manganese	**3240**	**75.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34510H**
		Dilution Factor: 5		Analysis Time..: 15:50		
Nickel	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34510J
		Dilution Factor: 5		Analysis Time..: 15:50		
Potassium	ND	25000	ug/L	SW846 6010A	07/01-07/02/98	CJ34510K
		Dilution Factor: 5		Analysis Time..: 15:50		
Sodium	**107000**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34510M**
		Dilution Factor: 5		Analysis Time..: 15:50		
Vanadium	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ34510N
		Dilution Factor: 5		Analysis Time..: 15:50		
Zinc	**279**	**100**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34510P**
		Dilution Factor: 5		Analysis Time..: 15:50		
Prep Batch #...: 8192142						
Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34520L
		Dilution Factor: 1		Analysis Time..: 13:12		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

DISSOLVED Metals

Lot-Sample #...: H8F160181-010 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ34F10Q
		Dilution Factor: 1		Analysis Time..: 18:34		
Prep Batch #...: 8182120						
Aluminum	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ34F101
		Dilution Factor: 10		Analysis Time..: 14:46		
Arsenic	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34F10L
		Dilution Factor: 10		Analysis Time..: 13:58		
Lead	ND	30.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34F10M
		Dilution Factor: 10		Analysis Time..: 13:58		
Antimony	ND	600	ug/L	SW846 6010A	07/01-07/02/98	CJ34F102
		Dilution Factor: 10		Analysis Time..: 14:46		
Barium	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ34F103
		Dilution Factor: 10		Analysis Time..: 14:46		
Selenium	ND	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34F10N
		Dilution Factor: 10		Analysis Time..: 13:58		
Beryllium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34F104
		Dilution Factor: 10		Analysis Time..: 14:46		
Thallium	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34F10P
		Dilution Factor: 10		Analysis Time..: 13:58		
Cadmium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34F105
		Dilution Factor: 10		Analysis Time..: 14:46		
Calcium	**274000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34F106**
		Dilution Factor: 10		Analysis Time..: 14:46		
Chromium	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJ34F107
		Dilution Factor: 10		Analysis Time..: 14:46		
Cobalt	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ34F108
		Dilution Factor: 10		Analysis Time..: 14:46		
Copper	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ34F109
		Dilution Factor: 10		Analysis Time..: 14:46		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7390

DISSOLVED Metals

Lot-Sample #...: H8F160181-010 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	1000	ug/L	SW846 6010A	07/01-07/02/98	CJ34F10A
		Dilution Factor: 10		Analysis Time..: 14:46		
Magnesium	**96100**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34F10C**
		Dilution Factor: 10		Analysis Time..: 14:46		
Manganese	**818**	**150**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34F10D**
		Dilution Factor: 10		Analysis Time..: 14:46		
Nickel	ND	400	ug/L	SW846 6010A	07/01-07/02/98	CJ34F10E
		Dilution Factor: 10		Analysis Time..: 14:46		
Potassium	ND	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ34F10F
		Dilution Factor: 10		Analysis Time..: 14:46		
Sodium	**119000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34F10H**
		Dilution Factor: 10		Analysis Time..: 14:46		
Vanadium	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ34F10J
		Dilution Factor: 10		Analysis Time..: 14:46		
Zinc	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34F10K
		Dilution Factor: 10		Analysis Time..: 14:46		

Prep Batch #...: 8192141

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34F20G
		Dilution Factor: 1		Analysis Time..: 12:13		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

TOTAL Metals

Lot-Sample #...: H8F160181-003 Matrix.....: WATER
Date Sampled...: 06/14/98 Date Received..: 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	**0.29**	**0.20**	**ug/L**	**SW846 7470A**	**07/01/98**	**CJ34610V**
		Dilution Factor: 1		Analysis Time..: 19:07		
Prep Batch #...: 8182115						
Aluminum	**56800**	**2000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ346105**
		Dilution Factor: 10		Analysis Time..: 15:55		
Arsenic	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34610Q
		Dilution Factor: 10		Analysis Time..: 12:32		
Lead	**67.1**	**30.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ34610R**
		Dilution Factor: 10		Analysis Time..: 12:32		
Antimony	ND	600	ug/L	SW846 6010A	07/01-07/02/98	CJ346106
		Dilution Factor: 10		Analysis Time..: 15:55		
Barium	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ346107
		Dilution Factor: 10		Analysis Time..: 15:55		
Selenium	ND	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34610T
		Dilution Factor: 10		Analysis Time..: 12:32		
Beryllium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ346108
		Dilution Factor: 10		Analysis Time..: 15:55		
Thallium	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34610U
		Dilution Factor: 10		Analysis Time..: 12:32		
Cadmium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ346109
		Dilution Factor: 10		Analysis Time..: 15:55		
Calcium	**873000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34610A**
		Dilution Factor: 10		Analysis Time..: 15:55		
Chromium	**141**	**100**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34610C**
		Dilution Factor: 10		Analysis Time..: 15:55		
Cobalt	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ34610D
		Dilution Factor: 10		Analysis Time..: 15:55		
Copper	**438**	**250**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34610E**
		Dilution Factor: 10		Analysis Time..: 15:55		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

TOTAL Metals

Lot-Sample #...: H8F160181-003 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	134000	1000	ug/L	SW846 6010A	07/01-07/02/98	CJ34610F
		Dilution Factor: 10		Analysis Time..: 15:55		
Magnesium	195000	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ34610G
		Dilution Factor: 10		Analysis Time..: 15:55		
Manganese	4050	150	ug/L	SW846 6010A	07/01-07/02/98	CJ34610H
		Dilution Factor: 10		Analysis Time..: 15:55		
Nickel	407	400	ug/L	SW846 6010A	07/01-07/02/98	CJ34610J
		Dilution Factor: 10		Analysis Time..: 15:55		
Potassium	ND	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ34610K
		Dilution Factor: 10		Analysis Time..: 15:55		
Sodium	707000	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ34610M
		Dilution Factor: 10		Analysis Time..: 15:55		
Vanadium	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ34610N
		Dilution Factor: 10		Analysis Time..: 15:55		
Zinc	441	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34610P
		Dilution Factor: 10		Analysis Time..: 15:55		
Prep Batch #...: 8192142						
Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34620L
		Dilution Factor: 1		Analysis Time..: 13:17		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

DISSOLVED Metals

Lot-Sample #...: H8F160181-011 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ34H10Q
		Dilution Factor: 1		Analysis Time..: 18:36		
Prep Batch #...: 8182120						
Aluminum	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ34H101
		Dilution Factor: 10		Analysis Time..: 14:51		
Arsenic	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34H10L
		Dilution Factor: 10		Analysis Time..: 14:03		
Lead	**31.5**	**30.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ34H10M**
		Dilution Factor: 10		Analysis Time..: 14:03		
Antimony	ND	600	ug/L	SW846 6010A	07/01-07/02/98	CJ34H102
		Dilution Factor: 10		Analysis Time..: 14:51		
Barium	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ34H103
		Dilution Factor: 10		Analysis Time..: 14:51		
Selenium	ND	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34H10N
		Dilution Factor: 10		Analysis Time..: 14:03		
Beryllium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34H104
		Dilution Factor: 10		Analysis Time..: 14:51		
Thallium	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34H10P
		Dilution Factor: 10		Analysis Time..: 14:03		
Cadmium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34H105
		Dilution Factor: 10		Analysis Time..: 14:51		
Calcium	**269000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34H106**
		Dilution Factor: 10		Analysis Time..: 14:51		
Chromium	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJ34H107
		Dilution Factor: 10		Analysis Time..: 14:51		
Cobalt	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ34H108
		Dilution Factor: 10		Analysis Time..: 14:51		
Copper	**311**	**250**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34H109**
		Dilution Factor: 10		Analysis Time..: 14:51		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

DISSOLVED Metals

Lot-Sample #...: H8F160181-011 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	1000	ug/L	SW846 6010A	07/01-07/02/98	CJ34H10A
		Dilution Factor: 10		Analysis Time..: 14:51		
Magnesium	**73600**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34H10C**
		Dilution Factor: 10		Analysis Time..: 14:51		
Manganese	**1120**	**150**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34H10D**
		Dilution Factor: 10		Analysis Time..: 14:51		
Nickel	ND	400	ug/L	SW846 6010A	07/01-07/02/98	CJ34H10E
		Dilution Factor: 10		Analysis Time..: 14:51		
Potassium	ND	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ34H10F
		Dilution Factor: 10		Analysis Time..: 14:51		
Sodium	**754000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34H10H**
		Dilution Factor: 10		Analysis Time..: 14:51		
Vanadium	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ34H10J
		Dilution Factor: 10		Analysis Time..: 14:51		
Zinc	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34H10K
		Dilution Factor: 10		Analysis Time..: 14:51		

Prep Batch #...: 8192141

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34H20G
		Dilution Factor: 1		Analysis Time..: 12:18		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

TOTAL Metals

Lot-Sample #...: H8F160181-004 Matrix.....: WATER
Date Sampled...: 06/14/98 Date Received..: 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	ND	0.40	ug/L	SW846 7470A	07/01/98	CJ34810T
		Dilution Factor: 2		Analysis Time..: 19:10		
Prep Batch #...: 8182115						
Aluminum	**4820**	**2000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ348103**
		Dilution Factor: 10		Analysis Time..: 16:00		
Arsenic	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34810N
		Dilution Factor: 10		Analysis Time..: 12:38		
Lead	ND	30.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34810P
		Dilution Factor: 10		Analysis Time..: 12:38		
Antimony	ND	600	ug/L	SW846 6010A	07/01-07/02/98	CJ348104
		Dilution Factor: 10		Analysis Time..: 16:00		
Barium	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ348105
		Dilution Factor: 10		Analysis Time..: 16:00		
Selenium	ND	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34810Q
		Dilution Factor: 10		Analysis Time..: 12:38		
Beryllium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ348106
		Dilution Factor: 10		Analysis Time..: 16:00		
Thallium	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34810R
		Dilution Factor: 10		Analysis Time..: 12:38		
Cadmium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ348107
		Dilution Factor: 10		Analysis Time..: 16:00		
Calcium	**848000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ348108**
		Dilution Factor: 10		Analysis Time..: 16:00		
Chromium	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJ348109
		Dilution Factor: 10		Analysis Time..: 16:00		
Cobalt	**3360**	**500**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34810A**
		Dilution Factor: 10		Analysis Time..: 16:00		
Copper	**1530**	**250**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34810C**
		Dilution Factor: 10		Analysis Time..: 16:00		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

TOTAL Metals

Lot-Sample #...: H8F160181-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**15500**	**1000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34810D**
		Dilution Factor: 10		Analysis Time..: 16:00		
Magnesium	**249000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34810E**
		Dilution Factor: 10		Analysis Time..: 16:00		
Manganese	**35300**	**150**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34810F**
		Dilution Factor: 10		Analysis Time..: 16:00		
Nickel	**1950**	**400**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34810G**
		Dilution Factor: 10		Analysis Time..: 16:00		
Potassium	ND	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ34810H
		Dilution Factor: 10		Analysis Time..: 16:00		
Sodium	**3640000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34810K**
		Dilution Factor: 10		Analysis Time..: 16:00		
Vanadium	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ34810L
		Dilution Factor: 10		Analysis Time..: 16:00		
Zinc	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34810M
		Dilution Factor: 10		Analysis Time..: 16:00		

Prep Batch #...: 8192142

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34820J
		Dilution Factor: 1		Analysis Time..: 13:32		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

DISSOLVED Metals

Lot-Sample #...: H8F160181-012 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181236						
Mercury	ND	0.40	ug/L	SW846 7470A	07/01/98	CJ34J10Q
		Dilution Factor: 2		Analysis Time..: 18:38		
Prep Batch #...: 8182120						
Aluminum	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ34J101
		Dilution Factor: 10		Analysis Time..: 14:56		
Arsenic	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34J10L
		Dilution Factor: 10		Analysis Time..: 14:20		
Lead	ND	30.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34J10M
		Dilution Factor: 10		Analysis Time..: 14:20		
Antimony	ND	600	ug/L	SW846 6010A	07/01-07/02/98	CJ34J102
		Dilution Factor: 10		Analysis Time..: 14:56		
Barium	ND	2000	ug/L	SW846 6010A	07/01-07/02/98	CJ34J103
		Dilution Factor: 10		Analysis Time..: 14:56		
Selenium	ND	50.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34J10N
		Dilution Factor: 10		Analysis Time..: 14:20		
Beryllium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34J104
		Dilution Factor: 10		Analysis Time..: 14:56		
Thallium	ND	100	ug/L	SW846 6010A	07/01-07/11/98	CJ34J10P
		Dilution Factor: 10		Analysis Time..: 14:20		
Cadmium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34J105
		Dilution Factor: 10		Analysis Time..: 14:56		
Calcium	**745000**	**5000Q**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J106**
		Dilution Factor: 10		Analysis Time..: 14:56		
Chromium	**495**	**100**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J107**
		Dilution Factor: 10		Analysis Time..: 14:56		
Cobalt	**3030**	**500**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J108**
		Dilution Factor: 10		Analysis Time..: 14:56		
Copper	**2000**	**250**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J109**
		Dilution Factor: 10		Analysis Time..: 14:56		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

DISSOLVED Metals

Lot-Sample #...: H8F160181-012 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**5870**	**1000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J10A**
		Dilution Factor: 10		Analysis Time..: 14:56		
Magnesium	**218000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J10C**
		Dilution Factor: 10		Analysis Time..: 14:56		
Manganese	**31300**	**150**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J10D**
		Dilution Factor: 10		Analysis Time..: 14:56		
Nickel	**1970**	**400**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J10E**
		Dilution Factor: 10		Analysis Time..: 14:56		
Potassium	ND	50000	ug/L	SW846 6010A	07/01-07/02/98	CJ34J10F
		Dilution Factor: 10		Analysis Time..: 14:56		
Sodium	**3210000**	**50000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J10H**
		Dilution Factor: 10		Analysis Time..: 14:56		
Vanadium	ND	500	ug/L	SW846 6010A	07/01-07/02/98	CJ34J10J
		Dilution Factor: 10		Analysis Time..: 14:56		
Zinc	**1100**	**200**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34J10K**
		Dilution Factor: 10		Analysis Time..: 14:56		

Prep Batch #...: 8192141

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34J20G
		Dilution Factor: 1		Analysis Time..: 12:33		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

TOTAL Metals

Lot-Sample #...: H8F160181-005 Matrix.....: WATER
Date Sampled...: 06/14/98 Date Received..: 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ34912L
		Dilution Factor: 1		Analysis Time..: 19:12		
Prep Batch #...: 8182115						
Aluminum	**13400**	**200**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34910E**
		Dilution Factor: 1		Analysis Time..: 16:05		
Arsenic	**31.3**	**10.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ349127**
		Dilution Factor: 1		Analysis Time..: 12:43		
Lead	**21.6**	**3.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ34912A**
		Dilution Factor: 1		Analysis Time..: 12:43		
Antimony	ND	60.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34910H
		Dilution Factor: 1		Analysis Time..: 16:05		
Barium	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34910L
		Dilution Factor: 1		Analysis Time..: 16:05		
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34912E
		Dilution Factor: 1		Analysis Time..: 12:43		
Beryllium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34910P
		Dilution Factor: 1		Analysis Time..: 16:05		
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34912H
		Dilution Factor: 1		Analysis Time..: 12:43		
Cadmium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34910T
		Dilution Factor: 1		Analysis Time..: 16:05		
Calcium	**300000**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34910W**
		Dilution Factor: 1		Analysis Time..: 16:05		
Chromium	**26.9**	**10.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ349111**
		Dilution Factor: 1		Analysis Time..: 16:05		
Cobalt	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ349114
		Dilution Factor: 1		Analysis Time..: 16:05		
Copper	**33.2**	**25.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ349117**
		Dilution Factor: 1		Analysis Time..: 16:05		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

TOTAL Metals

Lot-Sample #...: H8F160181-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**31500**	**100**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34911A**
		Dilution Factor: 1		Analysis Time..: 16:05		
Magnesium	**75900**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34911E**
		Dilution Factor: 1		Analysis Time..: 16:05		
Manganese	**1220**	**15.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34911H**
		Dilution Factor: 1		Analysis Time..: 16:05		
Nickel	ND	40.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34911L
		Dilution Factor: 1		Analysis Time..: 16:05		
Potassium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34911P
		Dilution Factor: 1		Analysis Time..: 16:05		
Sodium	**6480**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34911W**
		Dilution Factor: 1		Analysis Time..: 16:05		
Vanadium	**76.5**	**50.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ349121**
		Dilution Factor: 1		Analysis Time..: 16:05		
Zinc	**151**	**20.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ349124**
		Dilution Factor: 1		Analysis Time..: 16:05		
Prep Batch #...: 8192142						
Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34921T
		Dilution Factor: 1		Analysis Time..: 13:37		

IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

DISSOLVED Metals

Lot-Sample #...: H8F160181-013 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ34K127
		Dilution Factor: 1		Analysis Time..: 18:41		
Prep Batch #...: 8182120						
Aluminum	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34K101
		Dilution Factor: 1		Analysis Time..: 15:01		
Arsenic	**16.9**	**10.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ34K11T**
		Dilution Factor: 1		Analysis Time..: 14:26		
Lead	ND	3.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34K11W
		Dilution Factor: 1		Analysis Time..: 14:26		
Antimony	ND	60.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K104
		Dilution Factor: 1		Analysis Time..: 15:01		
Barium	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34K107
		Dilution Factor: 1		Analysis Time..: 15:01		
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34K121
		Dilution Factor: 1		Analysis Time..: 14:26		
Beryllium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K10A
		Dilution Factor: 1		Analysis Time..: 15:01		
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34K124
		Dilution Factor: 1		Analysis Time..: 14:26		
Cadmium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K10E
		Dilution Factor: 1		Analysis Time..: 15:01		
Calcium	**58800**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34K10H**
		Dilution Factor: 1		Analysis Time..: 15:01		
Chromium	ND	10.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K10L
		Dilution Factor: 1		Analysis Time..: 15:01		
Cobalt	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K10P
		Dilution Factor: 1		Analysis Time..: 15:01		
Copper	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K10T
		Dilution Factor: 1		Analysis Time..: 15:01		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

DISSOLVED Metals

Lot-Sample #...: H8F160181-013 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**456**	**100**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34K10W**
		Dilution Factor: 1		Analysis Time..: 15:01		
Magnesium	**14300**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34K111**
		Dilution Factor: 1		Analysis Time..: 15:01		
Manganese	**78.4**	**15.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34K114**
		Dilution Factor: 1		Analysis Time..: 15:01		
Nickel	ND	40.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K117
		Dilution Factor: 1		Analysis Time..: 15:01		
Potassium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34K11A
		Dilution Factor: 1		Analysis Time..: 15:01		
Sodium	**6810**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ34K11H**
		Dilution Factor: 1		Analysis Time..: 15:01		
Vanadium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K11L
		Dilution Factor: 1		Analysis Time..: 15:01		
Zinc	ND	20.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34K11P
		Dilution Factor: 1		Analysis Time..: 15:01		

Prep Batch #...: 8192141

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34K21E
		Dilution Factor: 1		Analysis Time..: 12:38		

IT CORPORATION - KNOXVILLE

Client Sample ID: 8000

TOTAL Metals

Lot-Sample #...: H8F160181-006 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ34A10V
		Dilution Factor: 1		Analysis Time..: 19:24		
Prep Batch #...: 8182115						
Aluminum	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34A105
		Dilution Factor: 1		Analysis Time..: 16:25		
Arsenic	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34A10Q
		Dilution Factor: 1		Analysis Time..: 13:19		
Lead	ND	3.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34A10R
		Dilution Factor: 1		Analysis Time..: 13:19		
Antimony	ND	60.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A106
		Dilution Factor: 1		Analysis Time..: 16:25		
Barium	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34A107
		Dilution Factor: 1		Analysis Time..: 16:25		
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34A10T
		Dilution Factor: 1		Analysis Time..: 13:19		
Beryllium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A108
		Dilution Factor: 1		Analysis Time..: 16:25		
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34A10U
		Dilution Factor: 1		Analysis Time..: 13:19		
Cadmium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A109
		Dilution Factor: 1		Analysis Time..: 16:25		
Calcium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10A
		Dilution Factor: 1		Analysis Time..: 16:25		
Chromium	ND	10.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10C
		Dilution Factor: 1		Analysis Time..: 16:25		
Cobalt	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10D
		Dilution Factor: 1		Analysis Time..: 16:25		
Copper	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10E
		Dilution Factor: 1		Analysis Time..: 16:25		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8000

TOTAL Metals

Lot-Sample #...: H8F160181-006 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10F
		Dilution Factor: 1		Analysis Time..: 16:25		
Magnesium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10G
		Dilution Factor: 1		Analysis Time..: 16:25		
Manganese	ND	15.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10H
		Dilution Factor: 1		Analysis Time..: 16:25		
Nickel	ND	40.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10J
		Dilution Factor: 1		Analysis Time..: 16:25		
Potassium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10K
		Dilution Factor: 1		Analysis Time..: 16:25		
Sodium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10M
		Dilution Factor: 1		Analysis Time..: 16:25		
Vanadium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10N
		Dilution Factor: 1		Analysis Time..: 16:25		
Zinc	ND	20.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34A10P
		Dilution Factor: 1		Analysis Time..: 16:25		

Prep Batch #...: 8192142

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34A20L
		Dilution Factor: 1		Analysis Time..: 13:57		

IT CORPORATION - KNOXVILLE

Client Sample ID: 8020

TOTAL Metals

Lot-Sample #...: H8F160181-007 **Matrix.....:** WATER
Date Sampled...: 06/15/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ34C10V
		Dilution Factor: 1		Analysis Time..: 19:26		
Prep Batch #...: 8182115						
Aluminum	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34C105
		Dilution Factor: 1		Analysis Time..: 16:40		
Arsenic	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34C10Q
		Dilution Factor: 1		Analysis Time..: 13:25		
Lead	ND	3.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34C10R
		Dilution Factor: 1		Analysis Time..: 13:25		
Antimony	ND	60.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C106
		Dilution Factor: 1		Analysis Time..: 16:40		
Barium	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ34C107
		Dilution Factor: 1		Analysis Time..: 16:40		
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34C10T
		Dilution Factor: 1		Analysis Time..: 13:25		
Beryllium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C108
		Dilution Factor: 1		Analysis Time..: 16:40		
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ34C10U
		Dilution Factor: 1		Analysis Time..: 13:25		
Cadmium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C109
		Dilution Factor: 1		Analysis Time..: 16:40		
Calcium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10A
		Dilution Factor: 1		Analysis Time..: 16:40		
Chromium	ND	10.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10C
		Dilution Factor: 1		Analysis Time..: 16:40		
Cobalt	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10D
		Dilution Factor: 1		Analysis Time..: 16:40		
Copper	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10E
		Dilution Factor: 1		Analysis Time..: 16:40		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8020

TOTAL Metals

Lot-Sample #...: H8F160181-007 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10F
		Dilution Factor: 1		Analysis Time..: 16:40		
Magnesium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10G
		Dilution Factor: 1		Analysis Time..: 16:40		
Manganese	ND	15.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10H
		Dilution Factor: 1		Analysis Time..: 16:40		
Nickel	ND	40.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10J
		Dilution Factor: 1		Analysis Time..: 16:40		
Potassium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10K
		Dilution Factor: 1		Analysis Time..: 16:40		
Sodium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10M
		Dilution Factor: 1		Analysis Time..: 16:40		
Vanadium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10N
		Dilution Factor: 1		Analysis Time..: 16:40		
Zinc	ND	20.0	ug/L	SW846 6010A	07/01-07/02/98	CJ34C10P
		Dilution Factor: 1		Analysis Time..: 16:40		
Prep Batch #...: 8192142						
Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ34C20L
		Dilution Factor: 1		Analysis Time..: 14:02		

IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

TOTAL Metals

Lot-Sample #...: H8F170165-002 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181240						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ3QW10V
		Dilution Factor: 1		Analysis Time..: 19:29		
Prep Batch #...: 8182115						
Aluminum	**11100**	**1000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3QW105**
		Dilution Factor: 5		Analysis Time..: 16:45		
Arsenic	**15.2**	**10.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ3QW10Q**
		Dilution Factor: 1		Analysis Time..: 13:30		
Lead	**11.8**	**3.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ3QW10R**
		Dilution Factor: 1		Analysis Time..: 13:30		
Antimony	ND	300	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW106
		Dilution Factor: 5		Analysis Time..: 16:45		
Barium	ND	1000	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW107
		Dilution Factor: 5		Analysis Time..: 16:45		
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJ3QW10T
		Dilution Factor: 1		Analysis Time..: 13:30		
Beryllium	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW108
		Dilution Factor: 5		Analysis Time..: 16:45		
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ3QW10U
		Dilution Factor: 1		Analysis Time..: 13:30		
Cadmium	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW109
		Dilution Factor: 5		Analysis Time..: 16:45		
Calcium	**230000**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3QW10A**
		Dilution Factor: 5		Analysis Time..: 16:45		
Chromium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW10C
		Dilution Factor: 5		Analysis Time..: 16:45		
Cobalt	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW10D
		Dilution Factor: 5		Analysis Time..: 16:45		
Copper	ND	125	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW10E
		Dilution Factor: 5		Analysis Time..: 16:45		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

TOTAL Metals

Lot-Sample #...: H8F170165-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**28500**	**500**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3QW10F**
		Dilution Factor: 5		Analysis Time..: 16:45		
Magnesium	**219000**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3QW10G**
		Dilution Factor: 5		Analysis Time..: 16:45		
Manganese	**8610**	**75.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3QW10H**
		Dilution Factor: 5		Analysis Time..: 16:45		
Nickel	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW10J
		Dilution Factor: 5		Analysis Time..: 16:45		
Potassium	ND	25000	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW10K
		Dilution Factor: 5		Analysis Time..: 16:45		
Sodium	**44300**	**25000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3QW10M**
		Dilution Factor: 5		Analysis Time..: 16:45		
Vanadium	ND	250	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW10N
		Dilution Factor: 5		Analysis Time..: 16:45		
Zinc	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJ3QW10P
		Dilution Factor: 5		Analysis Time..: 16:45		

Prep Batch #...: 8192142

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ3QW20L
		Dilution Factor: 1		Analysis Time..: 14:07		

IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

DISSOLVED Metals

Lot-Sample #...: H8F170165-003 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8181236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJ3R210R
		Dilution Factor: 1		Analysis Time..: 18:53		
Prep Batch #...: 8182120						
Aluminum	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ3R2102
		Dilution Factor: 1		Analysis Time..: 15:15		
Arsenic	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ3R210M
		Dilution Factor: 1		Analysis Time..: 14:48		
Lead	**4.4**	**3.0**	**ug/L**	**SW846 6010A**	**07/01-07/11/98**	**CJ3R210N**
		Dilution Factor: 1		Analysis Time..: 14:48		
Antimony	ND	60.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R2103
		Dilution Factor: 1		Analysis Time..: 15:15		
Barium	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJ3R2104
		Dilution Factor: 1		Analysis Time..: 15:15		
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJ3R210P
		Dilution Factor: 1		Analysis Time..: 14:48		
Beryllium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R2105
		Dilution Factor: 1		Analysis Time..: 15:15		
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJ3R210Q
		Dilution Factor: 1		Analysis Time..: 14:48		
Cadmium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R2106
		Dilution Factor: 1		Analysis Time..: 15:15		
Calcium	**237000**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3R2107**
		Dilution Factor: 1		Analysis Time..: 15:15		
Chromium	ND	10.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R2108
		Dilution Factor: 1		Analysis Time..: 15:15		
Cobalt	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R2109
		Dilution Factor: 1		Analysis Time..: 15:15		
Copper	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R210A
		Dilution Factor: 1		Analysis Time..: 15:15		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

DISSOLVED Metals

Lot-Sample #...: H8F170165-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**120**	**100**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3R210C**
		Dilution Factor: 1		Analysis Time..: 15:15		
Magnesium	**227000**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3R210D**
		Dilution Factor: 1		Analysis Time..: 15:15		
Manganese	**8480**	**15.0**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3R210E**
		Dilution Factor: 1		Analysis Time..: 15:15		
Nickel	ND	40.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R210F
		Dilution Factor: 1		Analysis Time..: 15:15		
Potassium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJ3R210G
		Dilution Factor: 1		Analysis Time..: 15:15		
Sodium	**44800**	**5000**	**ug/L**	**SW846 6010A**	**07/01-07/02/98**	**CJ3R210J**
		Dilution Factor: 1		Analysis Time..: 15:15		
Vanadium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R210K
		Dilution Factor: 1		Analysis Time..: 15:15		
Zinc	ND	20.0	ug/L	SW846 6010A	07/01-07/02/98	CJ3R210L
		Dilution Factor: 1		Analysis Time..: 15:15		

Prep Batch #...: 8192141

Silver	ND	10.0	ug/L	SW846 6010A	07/13-07/15/98	CJ3R220H
		Dilution Factor: 1		Analysis Time..: 12:57		

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F300000-240 **Prep Batch #...:** 8181240						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJFGC101
		Dilution Factor: 1				
		Analysis Time..: 18:55				
MB Lot-Sample #: H8G010000-115 **Prep Batch #...:** 8182115						
Aluminum	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJG0C10K
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Arsenic	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJG0C10F
		Dilution Factor: 1				
		Analysis Time..: 12:05				
Antimony	ND	60.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C10L
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Lead	ND	3.0	ug/L	SW846 6010A	07/01-07/11/98	CJG0C10G
		Dilution Factor: 1				
		Analysis Time..: 12:05				
Barium	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJG0C10M
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJG0C10H
		Dilution Factor: 1				
		Analysis Time..: 12:05				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C10N
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJG0C10J
		Dilution Factor: 1				
		Analysis Time..: 12:05				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C10P
		Dilution Factor: 1				
		Analysis Time..: 14:03				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJG0C101
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Chromium	ND	10.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C102
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C103
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Copper	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C104
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Iron	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJG0C105
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Magnesium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJG0C106
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Manganese	ND	15.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C107
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Nickel	ND	40.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C108
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Potassium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJG0C109
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Sodium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJG0C10C
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C10D
		Dilution Factor: 1				
		Analysis Time..: 14:03				
Zinc	ND	20.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0C10E
		Dilution Factor: 1				
		Analysis Time..: 14:03				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G110000-142 **Prep Batch #...:** 8192142						
Silver	ND	10.0	mg/L	SW846 6010A	07/13-07/15/98	CJPFX101
		Dilution Factor: 1				
		Analysis Time..: 11:43				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F300000-236 **Prep Batch #...:** 8181236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/01/98	CJFG3101
		Dilution Factor: 1				
		Analysis Time..: 18:24				
MB Lot-Sample #: H8G010000-120 **Prep Batch #...:** 8182120						
Aluminum	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10F
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Arsenic	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJG0K10A
		Dilution Factor: 1				
		Analysis Time..: 13:36				
Antimony	ND	60.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10G
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Lead	ND	3.0	ug/L	SW846 6010A	07/01-07/11/98	CJG0K10C
		Dilution Factor: 1				
		Analysis Time..: 13:36				
Barium	ND	200	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10H
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Selenium	ND	5.0	ug/L	SW846 6010A	07/01-07/11/98	CJG0K10D
		Dilution Factor: 1				
		Analysis Time..: 13:36				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10J
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Thallium	ND	10.0	ug/L	SW846 6010A	07/01-07/11/98	CJG0K10E
		Dilution Factor: 1				
		Analysis Time..: 13:36				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10K
		Dilution Factor: 1				
		Analysis Time..: 14:13				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10L
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Chromium	ND	10.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10M
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10N
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Copper	ND	25.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K10P
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Iron	ND	100	ug/L	SW846 6010A	07/01-07/02/98	CJG0K101
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Magnesium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJG0K102
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Manganese	ND	15.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K103
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Nickel	ND	40.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K104
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Potassium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJG0K105
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Sodium	ND	5000	ug/L	SW846 6010A	07/01-07/02/98	CJG0K107
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K108
		Dilution Factor: 1				
		Analysis Time..: 14:13				
Zinc	ND	20.0	ug/L	SW846 6010A	07/01-07/02/98	CJG0K109
		Dilution Factor: 1				
		Analysis Time..: 14:13				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G110000-141 **Prep Batch #...:** 8192141						
Silver	ND	10.0	mg/L	SW846 6010A	07/13-07/15/98	CJPFK101
		Dilution Factor: 1				
		Analysis Time..: 11:31				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F160181-005 **Prep Batch #...:** 8181240							
Mercury	117	(70 - 129)			SW846 7470A	07/01/98	CJ34912M
	117	(70 - 129)	0.0	(0-20)	SW846 7470A	07/01/98	CJ34912N
		Dilution Factor: 1					
		Analysis Time..: 19:14					
MS Lot-Sample #: H8F160181-005 **Prep Batch #...:** 8182115							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34910F
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/01-07/02/98	CJ34910G
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Arsenic	97	(80 - 120)			SW846 6010A	07/01-07/11/98	CJ349128
	92	(80 - 120)	5.0	(0-20)	SW846 6010A	07/01-07/11/98	CJ349129
		Dilution Factor: 1					
		Analysis Time..: 12:49					
Antimony	109	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34910J
	104	(80 - 120)	5.1	(0-20)	SW846 6010A	07/01-07/02/98	CJ34910K
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Lead	98	(80 - 120)			SW846 6010A	07/01-07/11/98	CJ34912C
	89	(80 - 120)	9.5	(0-20)	SW846 6010A	07/01-07/11/98	CJ34912D
		Dilution Factor: 1					
		Analysis Time..: 12:49					
Barium	92	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34910M
	84	(80 - 120)	9.0	(0-20)	SW846 6010A	07/01-07/02/98	CJ34910N
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Selenium	100	(80 - 120)			SW846 6010A	07/01-07/11/98	CJ34912F
	95	(80 - 120)	4.9	(0-20)	SW846 6010A	07/01-07/11/98	CJ34912G
		Dilution Factor: 1					
		Analysis Time..: 12:49					
Beryllium	100	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34910Q
	92	(80 - 120)	8.2	(0-20)	SW846 6010A	07/01-07/02/98	CJ34910R
		Dilution Factor: 1					
		Analysis Time..: 16:10					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	89	(80 - 120)			SW846 6010A	07/01-07/11/98	CJ34912J
	85	(80 - 120)	5.1	(0-20)	SW846 6010A	07/01-07/11/98	CJ34912K
		Dilution Factor: 1					
		Analysis Time..: 12:49					
Cadmium	104	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34910U
	97	(80 - 120)	6.7	(0-20)	SW846 6010A	07/01-07/02/98	CJ34910V
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Calcium	NC,MSB	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34910X
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/01-07/02/98	CJ349110
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Chromium	99	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ349112
	90	(80 - 120)	7.9	(0-20)	SW846 6010A	07/01-07/02/98	CJ349113
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Cobalt	93	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ349115
	87	(80 - 120)	6.8	(0-20)	SW846 6010A	07/01-07/02/98	CJ349116
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Copper	95	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ349118
	84	(80 - 120)	10	(0-20)	SW846 6010A	07/01-07/02/98	CJ349119
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Iron	NC,MSB	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34911C
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/01-07/02/98	CJ34911D
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Magnesium	142 N	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34911F
	108	(80 - 120)	12	(0-20)	SW846 6010A	07/01-07/02/98	CJ34911G
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Manganese	151 N	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34911J
	111	(80 - 120)	11	(0-20)	SW846 6010A	07/01-07/02/98	CJ34911K
		Dilution Factor: 1					
		Analysis Time..: 16:10					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	93	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34911M
	85	(80 - 120)	8.8	(0-20)	SW846 6010A	07/01-07/02/98	CJ34911N
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Potassium	105	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34911Q
	95	(80 - 120)	9.0	(0-20)	SW846 6010A	07/01-07/02/98	CJ34911R
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Sodium	105	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34911X
	95	(80 - 120)	9.1	(0-20)	SW846 6010A	07/01-07/02/98	CJ349120
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Vanadium	94	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ349122
	85	(80 - 120)	8.3	(0-20)	SW846 6010A	07/01-07/02/98	CJ349123
		Dilution Factor: 1					
		Analysis Time..: 16:10					
Zinc	91	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ349125
	80	(80 - 120)	9.9	(0-20)	SW846 6010A	07/01-07/02/98	CJ349126
		Dilution Factor: 1					
		Analysis Time..: 16:10					

MS Lot-Sample #: H8F160181-005 **Prep Batch #...:** 8192142

Silver	103	(80 - 120)			SW846 6010A	07/13-	CJ34913K
	96	(80 - 120)	6.9	(0-20)	SW846 6010A	07/13-	CJ34913L
		Dilution Factor: 1					
		Analysis Time..: 00:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F160181-013 **Prep Batch #...:** 8181236							
Mercury	113	(70 - 129)			SW846 7470A	07/01/98	CJ34K128
	113	(70 - 129)	0.0	(0-20)	SW846 7470A	07/01/98	CJ34K129
		Dilution Factor: 1					
		Analysis Time..: 18:43					
MS Lot-Sample #: H8F160181-013 **Prep Batch #...:** 8182120							
Aluminum	138 N	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K102
	98 *	(80 - 120)	33	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K103
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Arsenic	106	(80 - 120)			SW846 6010A	07/01-07/11/98	CJ34K11U
	105	(80 - 120)	0.51	(0-20)	SW846 6010A	07/01-07/11/98	CJ34K11V
		Dilution Factor: 1					
		Analysis Time..: 14:31					
Antimony	114	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K105
	116	(80 - 120)	2.2	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K106
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Lead	104	(80 - 120)			SW846 6010A	07/01-07/11/98	CJ34K11X
	104	(80 - 120)	0.55	(0-20)	SW846 6010A	07/01-07/11/98	CJ34K120
		Dilution Factor: 1					
		Analysis Time..: 14:31					
Barium	94	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K108
	94	(80 - 120)	0.07	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K109
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Selenium	108	(80 - 120)			SW846 6010A	07/01-07/11/98	CJ34K122
	107	(80 - 120)	0.62	(0-20)	SW846 6010A	07/01-07/11/98	CJ34K123
		Dilution Factor: 1					
		Analysis Time..: 14:31					
Beryllium	103	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K10C
	103	(80 - 120)	0.35	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K10D
		Dilution Factor: 1					
		Analysis Time..: 15:06					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	100	(80 - 120)			SW846 6010A	07/01-07/11/98	CJ34K125
	99	(80 - 120)	0.59	(0-20)	SW846 6010A	07/01-07/11/98	CJ34K126
		Dilution Factor: 1					
		Analysis Time..: 14:31					
Cadmium	105	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K10F
	109	(80 - 120)	3.2	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K10G
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Calcium	104	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K10J
	102	(80 - 120)	1.1	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K10K
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Chromium	103	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K10M
	103	(80 - 120)	0.45	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K10N
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Cobalt	100	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K10Q
	100	(80 - 120)	0.31	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K10R
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Copper	97	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K10U
	97	(80 - 120)	0.14	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K10V
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Iron	101	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K10X
	93	(80 - 120)	5.8	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K110
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Magnesium	105	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K112
	104	(80 - 120)	0.41	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K113
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Manganese	96	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K115
	96	(80 - 120)	0.15	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K116
		Dilution Factor: 1					
		Analysis Time..: 15:06					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	98	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K118
	98	(80 - 120)	0.28	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K119
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Potassium	102	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K11C
	101	(80 - 120)	0.91	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K11D
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Sodium	102	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K11J
	102	(80 - 120)	0.33	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K11K
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Vanadium	97	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K11M
	97	(80 - 120)	0.33	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K11N
		Dilution Factor: 1					
		Analysis Time..: 15:06					
Zinc	101	(80 - 120)			SW846 6010A	07/01-07/02/98	CJ34K11Q
	99	(80 - 120)	1.6	(0-20)	SW846 6010A	07/01-07/02/98	CJ34K11R
		Dilution Factor: 1					
		Analysis Time..: 15:06					

MS Lot-Sample #: H8F160181-013 **Prep Batch #...:** 8192141

Silver	110	(80 - 120)			SW846 6010A	07/13-	CJ34K12A
	111	(80 - 120)	0.81	(0-20)	SW846 6010A	07/13-	CJ34K12C
		Dilution Factor: 1					
		Analysis Time..: 00:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Relative percent difference (RPD) is outside stated control limits.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8F300000-240 **Prep Batch #...:** 8181240					
Mercury	107	(80 - 120)	SW846 7470A	07/01/98	CJFGC102
		Dilution Factor: 1			
		Analysis Time..: 18:57			
LCS Lot-Sample#: H8G010000-115 **Prep Batch #...:** 8182115					
Calcium	97	(82 - 120)	SW846 6010A	07/01-07/02/98	CJG0C10Q
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Chromium	97	(80 - 120)	SW846 6010A	07/01-07/02/98	CJG0C10R
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Cobalt	94	(83 - 115)	SW846 6010A	07/01-07/02/98	CJG0C10T
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Copper	94	(82 - 116)	SW846 6010A	07/01-07/02/98	CJG0C10U
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Iron	90	(87 - 120)	SW846 6010A	07/01-07/02/98	CJG0C10V
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Magnesium	95	(82 - 120)	SW846 6010A	07/01-07/02/98	CJG0C10W
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Manganese	89	(86 - 116)	SW846 6010A	07/01-07/02/98	CJG0C10X
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Aluminum	93	(83 - 117)	SW846 6010A	07/01-07/02/98	CJG0C11A
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Antimony	105	(87 - 120)	SW846 6010A	07/01-07/02/98	CJG0C11C
		Dilution Factor: 1			
		Analysis Time..: 14:08			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium	86	(82 - 112)	SW846 6010A	07/01-07/02/98	CJG0C11D
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Beryllium	92	(80 - 120)	SW846 6010A	07/01-07/02/98	CJG0C11E
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Cadmium	97	(81 - 118)	SW846 6010A	07/01-07/02/98	CJG0C11F
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Nickel	91	(83 - 120)	SW846 6010A	07/01-07/02/98	CJG0C110
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Potassium	95	(81 - 115)	SW846 6010A	07/01-07/02/98	CJG0C111
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Sodium	94	(82 - 114)	SW846 6010A	07/01-07/02/98	CJG0C113
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Vanadium	91	(88 - 117)	SW846 6010A	07/01-07/02/98	CJG0C114
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Zinc	96	(85 - 120)	SW846 6010A	07/01-07/02/98	CJG0C115
		Dilution Factor: 1			
		Analysis Time..: 14:08			
Arsenic	86	(82 - 110)	SW846 6010A	07/01-07/11/98	CJG0C116
		Dilution Factor: 1			
		Analysis Time..: 12:10			
Lead	86	(81 - 111)	SW846 6010A	07/01-07/11/98	CJG0C117
		Dilution Factor: 1			
		Analysis Time..: 12:10			
Selenium	88	(81 - 113)	SW846 6010A	07/01-07/11/98	CJG0C118
		Dilution Factor: 1			
		Analysis Time..: 12:10			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	82	(80 - 110)	SW846 6010A	07/01-07/11/98	CJG0C119
		Dilution Factor: 1			
		Analysis Time..: 12:10			

LCS Lot-Sample#: H8G110000-142 **Prep Batch #...:** 8192142

Silver	100	(80 - 120)	SW846 6010A	07/13-07/15/98	CJPFX102
		Dilution Factor: 1			
		Analysis Time..: 11:48			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8F300000-236 **Prep Batch #...:** 8181236					
Mercury	106	(80 - 120)	SW846 7470A Dilution Factor: 1 Analysis Time..: 18:26	07/01/98	CJFG3102
LCS Lot-Sample#: H8G010000-120 **Prep Batch #...:** 8182120					
Iron	92	(87 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K10Q
Magnesium	101	(82 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K10R
Manganese	95	(86 - 116)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K10T
Nickel	95	(83 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K10U
Potassium	101	(81 - 115)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K10V
Sodium	100	(82 - 114)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K10X
Cadmium	105	(81 - 118)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K11A
Calcium	103	(82 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K11C
Chromium	101	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K11D

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	98	(83 - 115)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K11E
Copper	99	(82 - 116)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K11F
Vanadium	96	(88 - 117)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K110
Zinc	99	(85 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K111
Arsenic	100	(82 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:41	07/01-07/11/98	CJG0K112
Lead	100	(81 - 111)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:41	07/01-07/11/98	CJG0K113
Selenium	104	(81 - 113)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:41	07/01-07/11/98	CJG0K114
Thallium	96	(80 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:41	07/01-07/11/98	CJG0K115
Aluminum	106	(83 - 117)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K116
Antimony	113	(87 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K117
Barium	91	(82 - 112)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:18	07/01-07/02/98	CJG0K118

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB031 **Matrix.....:** WATER

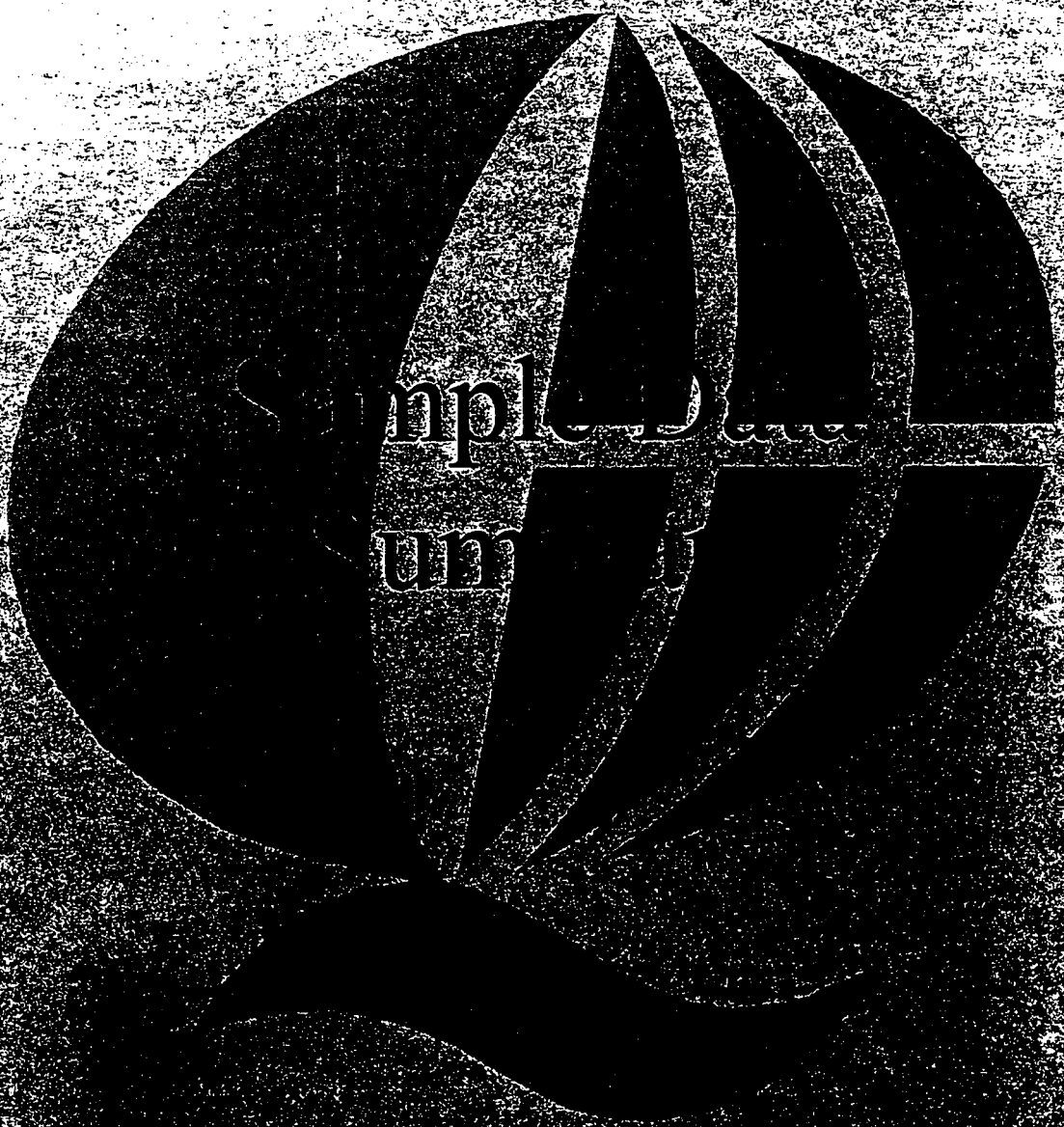
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium	99	(80 - 120)	SW846 6010A	07/01-07/02/98	CJG0K119
		Dilution Factor: 1			
		Analysis Time..: 14:18			

LCS Lot-Sample#: H8G110000-141 **Prep Batch #...:** 8192141

Silver	117	(80 - 120)	SW846 6010A	07/13-07/15/98	CJPFK102
		Dilution Factor: 1			
		Analysis Time..: 11:38			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.



IT CORPORATION - KNOXVILLE

Client Sample ID: 8610

General Chemistry

Lot-Sample #...: H8F160170-002 Work Order #...: CJ2XV Matrix.....: WATER
Date Sampled...: 06/15/98 Date Received..: 06/16/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH 4.5	**643**	**5.0**	**mg/L**	**MCAWW 310.1**	**06/22/98**	**8174175**
	Dilution Factor: 1					
Chloride - Automated	ND	10.0	mg/L	MCAWW 325.2	07/01/98	8182271
	Dilution Factor: 10					
Hardness, as CaCO3	**960**	**10.0**	**mg/L**	**MCAWW 130.2**	**06/22/98**	**8174174**
	Dilution Factor: 5					
Nitrate	**1.7**	**1.0**	**mg/L**	**MCAWW 353.2**	**06/17/98**	**8174187**
	Dilution Factor: 10					
Nitrate as N	**1.6**	**0.50**	**mg/L**	**MCAWW 300.0A**	**06/16/98**	**8169139**
	Dilution Factor: 1					
Sulfate	**278**	**50.0**	**mg/L**	**MCAWW 375.4**	**06/26/98**	**8177243**
	Dilution Factor: 10					
Total Cyanide	ND	0.010	mg/L	SW846 9010A	06/24/98	8175200
	Dilution Factor: 1					
Total Dissolved Solids	**1260**	**10.0**	**mg/L**	**MCAWW 160.1**	**06/17-06/18/98**	**8169250**
	Dilution Factor: 1					
Total Organic Carbon	**36.6**	**5.0**	**mg/L**	**SW846 9060**	**06/24/98**	**8177151**
	Dilution Factor: 5					
Total Suspended Solids	**15.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**06/17-06/18/98**	**8169247**
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

TOC range: 36.2 - 37.2

IT CORPORATION - KNOXVILLE

Client Sample ID: 7270

General Chemistry

Lot-Sample #...: H8F160181-001 **Work Order #...:** CJ344 **Matrix.....:** WATER
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH 4.5	**450**	**5.0**	**mg/L**	**MCAWW 310.1**	**06/22/98**	**8174175**
	Dilution Factor: 1					
Chloride - Automated	**9.8**	**2.0**	**mg/L**	**MCAWW 325.2**	**07/01/98**	**8182271**
	Dilution Factor: 2					
Hardness, as CaCO3	**780**	**10.0**	**mg/L**	**MCAWW 130.2**	**06/22/98**	**8174174**
	Dilution Factor: 5					
Nitrate	ND	1.0	mg/L	MCAWW 353.2	06/17/98	8174187
	Dilution Factor: 10					
Nitrate as N	ND	0.50	mg/L	MCAWW 300.0A	06/16/98	8169139
	Dilution Factor: 1					
Sulfate	**574**	**500**	**mg/L**	**MCAWW 375.4**	**06/26/98**	**8177243**
	Dilution Factor: 100					
Total Cyanide	ND	0.010	mg/L	SW846 9010A	06/24/98	8175200
	Dilution Factor: 1					
Total Dissolved Solids	**1410**	**10.0**	**mg/L**	**MCAWW 160.1**	**06/17-06/18/98**	**8169250**
	Dilution Factor: 1					
Total Organic Carbon	**19.3**	**2.0**	**mg/L**	**SW846 9060**	**06/24/98**	**8177151**
	Dilution Factor: 2					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	06/17-06/18/98	8169247
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

TOC range: 18.9 - 19.4

IT CORPORATION - KNOXVILLE

Client Sample ID: 7550

General Chemistry

Lot-Sample #...: H8F160181-003 Work Order #...: CJ346 Matrix.....: WATER
Date Sampled...: 06/14/98 Date Received..: 06/16/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH 4.5	476	5.0	mg/L	MCAWW 310.1	06/22/98	8174175
	Dilution Factor: 1					
Chloride - Automated	ND	100	mg/L	MCAWW 325.2	07/01/98	8182271
	Dilution Factor: 100					
Hardness, as CaCO3	1640	20.0	mg/L	MCAWW 130.2	06/22/98	8174174
	Dilution Factor: 10					
Nitrate	16.4	10.0	mg/L	MCAWW 353.2	06/17/98	8174187
	Dilution Factor: 100					
Nitrate as N	16.9	0.50	mg/L	MCAWW 300.0A	06/16/98	8169139
	Dilution Factor: 1					
Sulfate	1150	500	mg/L	MCAWW 375.4	06/26/98	8177243
	Dilution Factor: 100					
Total Cyanide	0.023	0.010	mg/L	SW846 9010A	06/24/98	8175200
	Dilution Factor: 1					
Total Dissolved Solids	4370	20.0	mg/L	MCAWW 160.1	06/17-06/18/98	8169250
	Dilution Factor: 2					
Total Organic Carbon	671	200	mg/L	SW846 9060	06/24/98	8177151
	Dilution Factor: 200					
Total Suspended Solids	12.0	4.0	mg/L	MCAWW 160.2	06/17-06/18/98	8169247
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

TOC range: 659.7 - 692.7

IT CORPORATION - KNOXVILLE

Client Sample ID: 7630

General Chemistry

Lot-Sample #...: H8F160181-004 Work Order #...: CJ348 Matrix.....: WATER
Date Sampled...: 06/14/98 Date Received..: 06/16/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH 4.5	864	5.0	mg/L	MCAWW 310.1	06/22/98	8174175
	Dilution Factor: 1					
Chloride - Automated	ND	1000	mg/L	MCAWW 325.2	07/01/98	8182271
	Dilution Factor: 1000					
Hardness, as CaCO3	2440	20.0	mg/L	MCAWW 130.2	06/22/98	8174174
	Dilution Factor: 10					
Nitrate	350	20.0	mg/L	MCAWW 353.2	06/17/98	8174187
	Dilution Factor: 200					
Sulfate	3730	1000	mg/L	MCAWW 375.4	06/26/98	8177243
	Dilution Factor: 200					
Total Cyanide	0.40	0.020	mg/L	SW846 9010A	06/24/98	8175200
	Dilution Factor: 2					
Total Dissolved Solids	22100	100	mg/L	MCAWW 160.1	06/17-06/18/98	8169250
	Dilution Factor: 10					
Total Organic Carbon	3060	1000	mg/L	SW846 9060	06/24/98	8177151
	Dilution Factor: 1000					
Total Suspended Solids	34.0	4.0	mg/L	MCAWW 160.2	06/17-06/18/98	8169247
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

TOC range: 3036 - 3089

IT CORPORATION - KNOXVILLE

Client Sample ID: 7990

General Chemistry

Lot-Sample #...: H8F160181-005 Work Order #...: CJ349 Matrix.....: WATER
Date Sampled...: 06/14/98 Date Received..: 06/16/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH 4.5	155	5.0	mg/L	MCAWW 310.1	06/22/98	8174175
	Dilution Factor: 1					
Chloride - Automated	2.3	1.0	mg/L	MCAWW 325.2	07/01/98	8182271
	Dilution Factor: 1					
Hardness, as CaCO3	670	10.0	mg/L	MCAWW 130.2	06/22/98	8174174
	Dilution Factor: 5					
Nitrate	ND	0.10	mg/L	MCAWW 353.2	06/17/98	8174187
	Dilution Factor: 1					
Nitrate as N	ND	0.50	mg/L	MCAWW 300.0A	06/16/98	8169139
	Dilution Factor: 1					
Sulfate	24.7	5.0	mg/L	MCAWW 375.4	06/26/98	8177243
	Dilution Factor: 1					
Total Cyanide	ND	0.010	mg/L	SW846 9010A	06/24/98	8175200
	Dilution Factor: 1					
Total Dissolved Solids	276	10.0	mg/L	MCAWW 160.1	06/17-06/18/98	8169250
	Dilution Factor: 1					
Total Organic Carbon	1.8	1.0	mg/L	SW846 9060	06/24-06/25/98	8177151
	Dilution Factor: 1					
Total Suspended Solids	6.0	4.0	mg/L	MCAWW 160.2	06/17-06/18/98	8169247
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

TOC range: 1.5 - 2.2

IT CORPORATION - KNOXVILLE

Client Sample ID: 8450

General Chemistry

Lot-Sample #...: H8F170165-002 **Work Order #...:** CJ3QW **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH 4.5	**1000**	**5.0**	**mg/L**	**MCAWW 310.1**	**06/22/98**	**8174175**
	Dilution Factor: 1					
Chloride - Automated	ND	10.0	mg/L	MCAWW 325.2	07/01/98	8182271
	Dilution Factor: 10					
Hardness, as CaCO3	**1400**	**10.0**	**mg/L**	**MCAWW 130.2**	**06/22/98**	**8174174**
	Dilution Factor: 5					
Nitrate	ND	1.0	mg/L	MCAWW 353.2	06/18/98	8183193
	Dilution Factor: 10					
Sulfate	**305**	**100**	**mg/L**	**MCAWW 375.4**	**06/26/98**	**8177243**
	Dilution Factor: 20					
Total Cyanide	ND	0.010	mg/L	SW846 9010A	06/24/98	8175200
	Dilution Factor: 1					
Total Dissolved Solids	**1710**	**10.0**	**mg/L**	**MCAWW 160.1**	**06/17-06/18/98**	**8169250**
	Dilution Factor: 1					
Total Organic Carbon	**32.0**	**5.0**	**mg/L**	**SW846 9060**	**06/24-06/25/98**	**8177151**
	Dilution Factor: 5					
Total Suspended Solids	**85.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**06/17-06/18/98**	**8169247**
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

TOC range: 30.4 - 33.2

METHOD BLANK REPORT

General Chemistry

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH		Work Order #: CJ87G101		MB Lot-Sample #:	B8F230000-175	
	ND	5.0	mg/L	MCAWW 310.1	06/22/98	8174175
		Dilution Factor: 1				
Chloride - Automated		Work Order #: CJH5K101		MB Lot-Sample #:	B8G010000-271	
	ND	1.0	mg/L	MCAWW 325.2	07/01/98	8182271
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: CJ882101		MB Lot-Sample #:	B8F230000-174	
	ND	2.0	mg/L	MCAWW 130.2	06/22/98	8174174
		Dilution Factor: 1				
Nitrate		Work Order #: CJ96M101		MB Lot-Sample #:	B8F230000-187	
	ND	0.10	mg/L	MCAWW 353.2	06/17/98	8174187
		Dilution Factor: 1				
Nitrate		Work Order #: CJH8C101		MB Lot-Sample #:	B8G020000-193	
	ND	0.10	mg/L	MCAWW 353.2	06/18/98	8183193
		Dilution Factor: 1				
Nitrate as N		Work Order #: CJ486101		MB Lot-Sample #:	B8F180000-139	
	ND	0.50	mg/L	MCAWW 300.0A	06/16/98	8169139
		Dilution Factor: 1				
Sulfate		Work Order #: CJEDV101		MB Lot-Sample #:	B8F260000-243	
	ND	5.0	mg/L	MCAWW 375.4	06/26/98	8177243
		Dilution Factor: 1				
Total Cyanide		Work Order #: CJ9EK101		MB Lot-Sample #:	B8F240000-200	
	ND	0.010	mg/L	SW846 9010A	06/24/98	8175200
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: CJ4PH101		MB Lot-Sample #:	B8F180000-250	
	ND	10.0	mg/L	MCAWW 160.1	06/17-06/18/98	8169250
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: CJCNA101		MB Lot-Sample #:	B8F260000-151	
	ND	1.0	mg/L	SW846 9060	06/24/98	8177151
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: CJ4ME101		MB Lot-Sample #:	B8F180000-247	
	ND	4.0	mg/L	MCAWW 160.2	06/17-06/18/98	8169247
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: PB031 Matrix.....: WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: PB031 **Matrix.....:** WATER
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH		WO#:	CJ34912W-MS/CJ34912X-MSD			MS Lot-Sample #:	H8F160181-005
	96	(90 - 110)			MCAWW 310.1	06/22/98	8174175
	100	(90 - 110)	1.6	(0-20)	MCAWW 310.1	06/22/98	8174175
		Dilution Factor: 1					
Chloride - Automated		WO#:	CJ349131-MS/CJ349132-MSD			MS Lot-Sample #:	H8F160181-005
	90 MSC	(90 - 114)			MCAWW 325.2	07/01/98	8182271
	88 N,MSC	(90 - 114)	1.2	(0-12)	MCAWW 325.2	07/01/98	8182271
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	CJ34912Q-MS/CJ34912R-MSD			MS Lot-Sample #:	H8F160181-005
	96	(90 - 110)			MCAWW 130.2	06/22/98	8174174
	96	(90 - 110)	0.0	(0-20)	MCAWW 130.2	06/22/98	8174174
		Dilution Factor: 1					
Nitrate		WO#:	CJ3QW117-MS/CJ3QW118-MSD			MS Lot-Sample #:	H8F170165-002
	14 N,MSC	(90 - 110)			MCAWW 353.2	06/18/98	8183193
	13 N,MSC	(90 - 110)	2.5	(0-10)	MCAWW 353.2	06/18/98	8183193
		Dilution Factor: 1					
Nitrate		WO#:	CJ349134-MS/CJ349135-MSD			MS Lot-Sample #:	H8F160181-005
	98	(90 - 110)			MCAWW 353.2	06/17/98	8174187
	97	(90 - 110)	0.76	(0-10)	MCAWW 353.2	06/17/98	8174187
		Dilution Factor: 1					
Nitrate as N		WO#:	CJ34913F-MS/CJ34913J-MSD			MS Lot-Sample #:	H8F160181-005
	99	(80 - 120)			MCAWW 300.0A	06/16/98	8169139
	98	(80 - 120)	0.96	(0-20)	MCAWW 300.0A	06/16/98	8169139
		Dilution Factor: 1					
Sulfate		WO#:	CJ349137-MS/CJ349138-MSD			MS Lot-Sample #:	H8F160181-005
	115	(80 - 120)			MCAWW 375.4	06/26/98	8177243
	112	(80 - 120)	0.93	(0-20)	MCAWW 375.4	06/26/98	8177243
		Dilution Factor: 1					
Total Cyanide		WO#:	CJ34913G-MS/CJ34913H-MSD			MS Lot-Sample #:	H8F160181-005
	78	(56 - 128)			SW846 9010A	06/24/98	8175200
	84	(56 - 128)	7.4	(0-18)	SW846 9010A	06/24/98	8175200
		Dilution Factor: 1					
Total Organic Carbon		WO#:	CJ34913D-MS/CJ34913E-MSD			MS Lot-Sample #:	H8F160181-005
	94	(90 - 112)			SW846 9060	06/24-06/25/98	8177151
	95	(90 - 112)	0.33	(0-20)	SW846 9060	06/24-06/25/98	8177151
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: PB031 Matrix.....: WATER
Date Sampled...: 06/16/98 Date Received..: 06/17/98

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H8F160170 **Work Order #...:** CJ2XV-SMP CJ2XV-DUP **Matrix.....:** WATER

Date Sampled...: 06/15/98 **Date Received..:** 06/16/98

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #:	H8F160170-002	
	1260	1270	mg/L	0.87	(0-20)	MCAWW 160.1	06/17-06/18/98	8169250
		Dilution Factor: 1						
Total Suspended Solids						SD Lot-Sample #:	H8F160170-002	
	15.0	11.0	mg/L	31	(0-20)	MCAWW 160.2	06/17-06/18/98	8169247
		Dilution Factor: 1						

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: PB031 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Alkalinity as CaCO3 to pH		WO#:CJ87G102-LCS/CJ87G103-LCSD				LCS Lot-Sample#: B8F230000-175	
	100	(90 - 110)			MCAWW 310.1	06/22/98	8174175
	100	(90 - 110)	0.0	(0-20)	MCAWW 310.1	06/22/98	8174175
		Dilution Factor: 1					
Chloride - Automated		WO#:CJH5K102-LCS/CJH5K103-LCSD				LCS Lot-Sample#: B8G010000-271	
	90	(90 - 115)			MCAWW 325.2	07/01/98	8182271
	91	(90 - 115)	0.97	(0-20)	MCAWW 325.2	07/01/98	8182271
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:CJ882102-LCS/CJ882103-LCSD				LCS Lot-Sample#: B8F230000-174	
	102	(90 - 110)			MCAWW 130.2	06/22/98	8174174
	100	(90 - 110)	2.0	(0-20)	MCAWW 130.2	06/22/98	8174174
		Dilution Factor: 1					
Nitrate		WO#:CJH8C102-LCS/CJH8C103-LCSD				LCS Lot-Sample#: B8G020000-193	
	90	(90 - 110)			MCAWW 353.2	06/18/98	8183193
	90	(90 - 110)	0.0	(0-20)	MCAWW 353.2	06/18/98	8183193
		Dilution Factor: 1					
Nitrate as N		WO#:CJ486102-LCS/CJ486103-LCSD				LCS Lot-Sample#: B8F180000-139	
	97	(89 - 110)			MCAWW 300.0A	06/16/98	8169139
	97	(89 - 110)	0.41	(0-20)	MCAWW 300.0A	06/16/98	8169139
		Dilution Factor: 1					
Total Dissolved Solids		WO#:CJ4PH102-LCS/CJ4PH103-LCSD				LCS Lot-Sample#: B8F180000-250	
	99	(84 - 114)			MCAWW 160.1	06/17-06/18/98	8169250
	97	(84 - 114)	2.0	(0-20)	MCAWW 160.1	06/17-06/18/98	8169250
		Dilution Factor: 1					
Total Organic Carbon		WO#:CJCNA102-LCS/CJCNA103-LCSD				LCS Lot-Sample#: B8F260000-151	
	93	(90 - 112)			SW846 9060	06/24/98	8177151
	94	(90 - 112)	0.44	(0-20)	SW846 9060	06/24/98	8177151
		Dilution Factor: 1					
Total Suspended Solids		WO#:CJ4ME102-LCS/CJ4ME103-LCSD				LCS Lot-Sample#: B8F180000-247	
	97	(76 - 121)			MCAWW 160.2	06/17-06/18/98	8169247
	97	(76 - 121)	0.0	(0-20)	MCAWW 160.2	06/17-06/18/98	8169247
		Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: PB031 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: PB031 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate		Work Order #: CJ96M102	LCS Lot-Sample#: B8F230000-187		
	98	(90 - 110)	MCAWW 353.2	06/17/98	8174187
		Dilution Factor: 1			
Sulfate		Work Order #: CJEDV102	LCS Lot-Sample#: B8F260000-243		
	102	(90 - 110)	MCAWW 375.4	06/26/98	8177243
		Dilution Factor: 1			
Total Cyanide		Work Order #: CJ9EK102	LCS Lot-Sample#: B8F240000-200		
	84	(65 - 119)	SW846 9010A	06/24/98	8175200
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB031

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	DISS	TOTAL	ALK	TOC	NO3	SO4	CL	HARD	CN	TSS	TDS	EXP
				8260A	8270B	8081	6010A	6010A	310.1	9060	353.2	375.3	325.3	130.2	9010A	160.2	160.1	8330
1	6/16/98	H8F160170	8570	X														X
2			8610	X	X	X	X	X	T	T	T	T	T	T	T	T	T	X
3			9033	X														
4	6/16/98	H8F160181	7270	X	X	X	X	X	T	T	T	T	T	T	T	T	T	X
5			7390	X	X	X	X	X										X
6			7550	X	X	X	X	X	T	T	T	T	T	T	T	T	T	X
7			7630	X	X		X	X	T	T	T	T	T	T	T	T	T	
8			7990	QC	QC	QC	QC	QC	QC/T	QC/T	QC/T	QC/T	QC/T	QC/T	QC/T	QC/T	QC/T	QC
9			8000	X	X	X		X										X
10			8020	X	X	X		X										X
11			9032	X														
12	6/17/98	H8F170165	8410	X														X
13			8450	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14			9034	X														
15																		
16																		
17																		
18																		
19																		
20																		

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: WATER
ANALYTICAL DUE: 7-9-98
REPORT DUE: 7-13-98
CLOSED?__YES__

7/22/989:05 AM

Quote# 23581

H8F1B017C

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-061598QESK

Project Number: 773701

Samples Shipment Date: 15-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Tumaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850075

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) [signature] Date: 5/16/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Received By (Signature/Affiliation) K Woolcock QES Date: 6/16/98 Time: 0940

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd w/ custody seals intact @ 4°C
KW 6-16-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8380	PBOW-98-SO-WARP-DP08-8380-(000	15-JUN-98	13:50	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8380	PBOW-98-SO-WARP-DP08-8380-(000	15-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8380	PBOW-98-SO-WARP-DP08-8380-(000	15-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8380	PBOW-98-SO-WARP-DP08-8380-(000	15-JUN-98	13:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8390	PBOW-98-SO-WARP-DP08-8390-(040	15-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8390	PBOW-98-SO-WARP-DP08-8390-(040	15-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8400	PBOW-98-SO-WARP-DP08-8400-(091	15-JUN-98	14:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8400	PBOW-98-SO-WARP-DP08-8400-(091	15-JUN-98	14:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

HCF160170

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-061598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8540	PBOW-98-SO-WARP-DP12-8540-(000	15-JUN-98	09:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8540	PBOW-98-SO-WARP-DP12-8540-(000	15-JUN-98	09:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8550	PBOW-98-SO-WARP-DP12-8550-(040	15-JUN-98	09:25	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8550	PBOW-98-SO-WARP-DP12-8550-(040	15-JUN-98	09:25	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8550	PBOW-98-SO-WARP-DP12-8550-(040	15-JUN-98	09:25	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8550	PBOW-98-SO-WARP-DP12-8550-(040	15-JUN-98	09:25	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8560	PBOW-98-SO-WARP-DP12-8560-(091	15-JUN-98	09:35	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8560	PBOW-98-SO-WARP-DP12-8560-(091	15-JUN-98	09:35	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
✓8570	PBOW-98-GW-WARP-DP12-8570	15-JUN-98	10:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
✓8570	PBOW-98-GW-WARP-DP12-8570	15-JUN-98	10:30	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8580	PBOW-98-SO-WARP-DP13-8580-(000	15-JUN-98	10:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8580	PBOW-98-SO-WARP-DP13-8580-(000	15-JUN-98	10:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8580	PBOW-98-SO-WARP-DP13-8580-(000	15-JUN-98	10:50	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8580	PBOW-98-SO-WARP-DP13-8580-(000	15-JUN-98	10:50	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8590	PBOW-98-SO-WARP-DP13-8590-(040	15-JUN-98	11:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8590	PBOW-98-SO-WARP-DP13-8590-(040	15-JUN-98	11:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8600	PBOW-98-SO-WARP-DP13-8600-(091	15-JUN-98	11:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8600	PBOW-98-SO-WARP-DP13-8600-(091	15-JUN-98	11:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
✓8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081 ✓	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water ✓	N		pH<2
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil ✓	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil ✓	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A ✓	N		
9033		15-JUN-98	13:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

H8F160170

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-081598QEST

Page 1 of 1

Project Number: 773701

Samples Shipment Date: 15-JUN-98

Project Name: PLUMBROOK ORDINANCE WOR

ab Destination: QUANTERRA, TAMPA LABORATORY

Sample Coordinator: Duane Nielsen

Lab Contact: MICHELE LERSCH

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex801624852229

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 5/16/98 Time: 1600	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	40 ml GVIAL,SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N		
8610	PBOW-98-GW-WARP-DP13-8610	15-JUN-98	13:00	1 L HDPE	1	H2SO4<pH 2	Nitrate by E353.2 in water	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: H8F160170

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:

		YES	NO	NA
a.	Do sample container labels match COC? (IDs, Dates, Times)	✓		
b.	Is the cooler temperature within acceptance limits?	✓		
c.	Were samples received with correct preservative (excluding Encore)?	✓		
d.	Were custody seals present/intact on cooler and/or containers?	✓		
e.	Were all of the samples listed on the COC received?	✓		
f.	Were all of the sample containers received intact?	✓		
g.	Were containers received for VOAs received without headspace?	✓		
h.	Were samples received in the appropriate containers?	✓		
i.	Did you check for residual chlorine, if necessary?			✓
j.	Were samples received within 1/2 of the (QAMP) holding time?	✓		
k.	Were samples screened for radioactivity?			✓
l.	Were client's sample documents (RFA/COC) received?	✓		
m.	Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n.	Are test/parameters listed for each sample?	✓		
o.	Is the matrix of the samples noted?	✓		
p.	Is the date/time of sample collection noted?	✓		
q.	Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: Bryan K Dawson DATE: 6-16-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":

		YES	NO	NA
a.	Quote number to be logged-in under 23581			✓
b.	Informed Login associates of special instructions ?			

2. If custody seals were missing/not intact, was client notified? ✓

PROJECT MANAGER : JM DATE: 6/16/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T.KNX PROJECT: PBOW Lot No.: H8F160170

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:			
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:			
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		✓
c. If samples were subcontracted, was copy of COC in folder?			
4. SDG Review:			
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:			
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/17/98

* Add test for sample 8610 for nitrate by MTD 300.1
(do not delete anything)

BPB 9/2/98

QA016R7.doc, 01/29/98

Quanterra Incorporated
SAMPLE ANALYSIS REQUISITION

LABORATORY: Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,- KNX

NEED ANALYTICAL REPORT BY
7/08/98

ATTN:

LAB PURCHASE ORDER: SR011334

CLIENT CODE: 99266 PROJECT MANAGER: John D. Reynolds

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H8F160170-002 CJ2XV-1-0W	6/15/98	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H8F160170-002 CJ2XV-1-0X	6/15/98	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H8F160170-002 CJ2XV-1-10	6/15/98	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H8F160170-002 CJ2XV-1-11	6/15/98	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H8F160170-002 CJ2XV-1-12	6/15/98	Chloride (325.2, Automated) (CL) METHOD: 325.2
H8F160170-002 CJ2XV-1-13	6/15/98	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H8F160170-002 CJ2XV-1-14	6/15/98	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H8F160170-002 CJ2XV-1-15	6/15/98	Cyanide, Total (9010) (CN_LIQ) METHOD: 9010A
H8F160170-002 CJ2XV-1-16	6/15/98	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDEX DATE: 6/16/98

SEND REPORT TO: JOHN REYNOLDS

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

QUANTERRA - KNOXVILLE
INT: _____ 6/16/98 15:17:24
Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,- KNX

RELINQUISHED BY: _____ DATE/TIME: _____

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: _____

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

Quote# 23581

H8F160181

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QESK

Project Number: 773701

Samples Shipment Date: 15-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850064

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown | X

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/15/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client | | Disposal by Lab X | Archive (mos.)

1. Received By (Signature/Affiliation) [signature] Date: 6/16/98 Time: 0940

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS -- 8000 AND 8020 TOTAL ONLY

Rec'd @ 4°C (except NOTED on COC) w/custody Seals Intact BYB 6/16/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7240	PBOW-98-SO-PRRP-DP02-7240-(0001	14-JUN-98	07:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7240	PBOW-98-SO-PRRP-DP02-7240-(0001	14-JUN-98	07:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7250	PBOW-98-SO-PRRP-DP02-7250-(0405	14-JUN-98	08:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7250	PBOW-98-SO-PRRP-DP02-7250-(0405	14-JUN-98	08:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7260	PBOW-98-SO-PRRP-DP02-7260-(0910	14-JUN-98	08:10	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7260	PBOW-98-SO-PRRP-DP02-7260-(0910	14-JUN-98	08:10	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7260	PBOW-98-SO-PRRP-DP02-7260-(0910	14-JUN-98	08:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7260	PBOW-98-SO-PRRP-DP02-7260-(0910	14-JUN-98	08:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

HSF160181

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		pH<2
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7360	PBOW-98-SO-PRRP-DP05-7360-(0001	14-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7360	PBOW-98-SO-PRRP-DP05-7360-(0001	14-JUN-98	09:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7370	PBOW-98-SO-PRRP-DP05-7370-(0405	14-JUN-98	09:50	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7370	PBOW-98-SO-PRRP-DP05-7370-(0405	14-JUN-98	09:50	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7370	PBOW-98-SO-PRRP-DP05-7370-(0405	14-JUN-98	09:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7370	PBOW-98-SO-PRRP-DP05-7370-(0405	14-JUN-98	09:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7380	PBOW-98-SO-PRRP-DP05-7380-(0910	14-JUN-98	10:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7380	PBOW-98-SO-PRRP-DP05-7380-(0910	14-JUN-98	10:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		pH<2
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7520	PBOW-98-SO-PRRP-DP09-7520-(0001	14-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7520	PBOW-98-SO-PRRP-DP09-7520-(0001	14-JUN-98	13:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530-MS	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530-MS	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530-MS	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530-MS	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530-MSD	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530-MSD	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530-MSD	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7530-MSD	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7531	PBOW-98-SO-PRRP-DP09-7531-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7531	PBOW-98-SO-PRRP-DP09-7531-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7531	PBOW-98-SO-PRRP-DP09-7531-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7531	PBOW-98-SO-PRRP-DP09-7531-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7532	PBOW-98-SO-PRRP-DP09-7532-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7532	PBOW-98-SO-PRRP-DP09-7532-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7532	PBOW-98-SO-PRRP-DP09-7532-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7532	PBOW-98-SO-PRRP-DP09-7532-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7540	PBOW-98-SO-PRRP-DP09-7540-(0910	14-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7540	PBOW-98-SO-PRRP-DP09-7540-(0910	14-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N	T= D=	pH=3 pH<2
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7600	PBOW-98-SO-PRRP-DP11-7600-(0001	13-JUN-98	15:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7600	PBOW-98-SO-PRRP-DP11-7600-(0001	13-JUN-98	15:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7600	PBOW-98-SO-PRRP-DP11-7600-(0001	13-JUN-98	15:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7600	PBOW-98-SO-PRRP-DP11-7600-(0001	13-JUN-98	15:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7610	PBOW-98-SO-PRRP-DP11-7610-(0405	13-JUN-98	15:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7610	PBOW-98-SO-PRRP-DP11-7610-(0405	13-JUN-98	15:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7620	PBOW-98-SO-PRRP-DP11-7620-(0910	13-JUN-98	15:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7620	PBOW-98-SO-PRRP-DP11-7620-(0910	13-JUN-98	15:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH=4
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		pH=4
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7960	PBOW-98-SO-PRRP-DP20-7960-(0001	13-JUN-98	14:25	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7960	PBOW-98-SO-PRRP-DP20-7960-(0001	13-JUN-98	14:25	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7970	PBOW-98-SO-PRRP-DP20-7970-(0405	13-JUN-98	14:35	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7970	PBOW-98-SO-PRRP-DP20-7970-(0405	13-JUN-98	14:35	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7980	PBOW-98-SO-PRRP-DP20-7980-(0910	13-JUN-98	14:45	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7980	PBOW-98-SO-PRRP-DP20-7980-(0910	13-JUN-98	14:45	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7980	PBOW-98-SO-PRRP-DP20-7980-(0910	13-JUN-98	14:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7980	PBOW-98-SO-PRRP-DP20-7980-(0910	13-JUN-98	14:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2 pH<2
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2 pH<2
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2 pH<2
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8000	PBOW-98-FB-PRRP-8000	15-JUN-98	09:15	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
8000	FB	15-JUN-98	09:15	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8000	FB	15-JUN-98	09:15	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8000	FB	15-JUN-98	09:15	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		
8000	FB	15-JUN-98	09:15	1 L HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010A/7471 in soil	N		pH<2
8020	PBOW-98-ER-PRRP-8020	15-JUN-98	09:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		
8020	ER	15-JUN-98	09:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8020	ER	15-JUN-98	09:00	1 L HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010A/7471 in soil	N		pH<2
8020	ER	15-JUN-98	09:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
8020	ER	15-JUN-98	09:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
9032	PBOW-98-TB-PRRP-9032	15-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QEST

Project Number: 773701

Samples Shipment Date: 15-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: QUANTERRA, TAMPA LABORATORY

Sample Coordinator: Duane Nielsen

Lab Contact: MICHELE LERSCH

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624852218

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 6/15/98 Time: 1600	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L HDPE	1	None except cool to 4 C	Nitrate by E353.2 in water	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	40 ml GVIAL,SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N		

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QEST

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	FB	CID	Condition On Receipt
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	40 ml GVIAL,SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Nitrate by E353.2 in water	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	40 ml GVIAL,SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L HDPE	1	None except cool to 4 C	Nitrate by E353.2 in water	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL,SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Nitrate by E353.2 in water	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Nitrate by E353.2 in water	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL,SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	ALKALINITY by E310.1 in water, Total Dissolved Solids by E160.1 in water, Total Suspended Solids by E160.2 in water	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	500 ml HDPE	1	NaOH>pH 12	Total Cyanide by SW-846 9010A	N		

FROM : IT Corp-Wabu Site PHONE NO. : 304 675 4236 Jun. 15 1998 10:37AM P7

H8F160181

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QEST

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Chloride be E325.3 in water, Sulfate by E375.3 in water	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	HNO3, pH<2	Hardness by E130.2 in water	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL SEP	3	pH<2 H2SO4	Total Organic Carbon by SW9060 in water	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	1	None except cool to 4 C	Nitrate by E353.2 in water	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F160181

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?		✓	
c. Were samples received with correct preservative (excluding Encore)?		✓	
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		✓ BPB 6/16/98
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: Bryan Blongquist DATE: 6/16/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?	✓		

2. If custody seals were missing/not intact, was client notified? ✓

PROJECT MANAGER : [signature] DATE: 6/16/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
7990 MSD	8081, 8330	2a	1LG for 8081, 1LG for 8330 — add additional OS/MS CTRS
7630	8081, 8270, 8330	2a	1LG for 8270, 2x1LG for 8081, 1LG for 8330
			Cancel 8081 & 8330 tests only !!

☑ Client informed on 6/16/98 by JDL. Person contacted: Marcus McClyce.
☑ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/17/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other: _____
Temperature:	2a Temp Blank = 7°C, ~~10°C~~ BPB 6/16/98
	~~2b Cooler Temp = 7°~~ BPB 6/16/98
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative: _____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other: _____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other: _____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other: _____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PGEW Lot No.: HF16018

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?	✓		
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/17/98

Add test for samples 7270, 7550 & 7990 for Nitrate by MTD 300.0 !!
(do not delete anything)

BPB 7/2/98

QA016R7.doc, 01/29/98

Quanterra Incorporated
SAMPLE ANALYSIS REQUISITION

LABORATORY: Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,BLO MQ

NEED ANALYTICAL REPORT BY
7/08/98

ATTN:

LAB PURCHASE ORDER: SR011337

CLIENT CODE: 99266 PROJECT MANAGER: John D. Reynolds

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H8F160181-001 CJ344-1-0W	6/14/98	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H8F160181-001 CJ344-1-0X	6/14/98	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H8F160181-001 CJ344-1-10	6/14/98	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H8F160181-001 CJ344-1-11	6/14/98	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H8F160181-001 CJ344-1-12	6/14/98	Chloride (325.2, Automated) (CL) METHOD: 325.2
H8F160181-001 CJ344-1-13	6/14/98	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H8F160181-001 CJ344-1-14	6/14/98	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H8F160181-001 CJ344-1-15	6/14/98	Cyanide, Total (9010) (CN_LIQ) METHOD: 9010A
H8F160181-001 CJ344-1-16	6/14/98	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H8F160181-003 CJ346-1-0W	6/14/98	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2

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Quanterra Incorporated
SAMPLE ANALYSIS REQUISITION

LABORATORY: Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,BLO MQ

NEED ANALYTICAL REPORT BY
7/08/98
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR011337

CLIENT CODE: 99266 PROJECT MANAGER: John D. Reynolds

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H8F160181-003 CJ346-1-0X	6/14/98	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H8F160181-003 CJ346-1-10	6/14/98	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H8F160181-003 CJ346-1-11	6/14/98	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H8F160181-003 CJ346-1-12	6/14/98	Chloride (325.2, Automated) (CL) METHOD: 325.2
H8F160181-003 CJ346-1-13	6/14/98	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H8F160181-003 CJ346-1-14	6/14/98	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H8F160181-003 CJ346-1-15	6/14/98	Cyanide, Total (9010) (CN_LIQ) METHOD: 9010A
H8F160181-003 CJ346-1-16	6/14/98	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H8F160181-004 CJ348-1-0U	6/14/98	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H8F160181-004 CJ348-1-0V	6/14/98	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1

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Quanterra Incorporated
SAMPLE ANALYSIS REQUISITION

LABORATORY: Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,BLO MQ

NEED ANALYTICAL REPORT BY
7/08/98
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR011337

CLIENT CODE: 99266 PROJECT MANAGER: John D. Reynolds

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H8F160181-004 CJ348-1-0W	6/14/98	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H8F160181-004 CJ348-1-0X	6/14/98	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H8F160181-004 CJ348-1-10	6/14/98	Chloride (325.2, Automated) (CL) METHOD: 325.2
H8F160181-004 CJ348-1-11	6/14/98	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H8F160181-004 CJ348-1-12	6/14/98	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H8F160181-004 CJ348-1-13	6/14/98	Cyanide, Total (9010) (CN_LIQ) METHOD: 9010A
H8F160181-004 CJ348-1-14	6/14/98	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H8F160181-005 CJ349-1-2P	6/14/98	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H8F160181-005 CJ349-1-2T	6/14/98	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H8F160181-005 CJ349-1-2U	6/14/98	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2

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Quanterra Incorporated
SAMPLE ANALYSIS REQUISITION

LABORATORY: Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,BLO MQ

NEED ANALYTICAL REPORT BY
7/08/98
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR011337

CLIENT CODE: 99266 PROJECT MANAGER: John D. Reynolds

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H8F160181-005 CJ349-1-2V	6/14/98	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H8F160181-005 CJ349-1-30	6/14/98	Chloride (325.2, Automated) (CL) METHOD: 325.2
H8F160181-005 CJ349-1-33	6/14/98	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H8F160181-005 CJ349 1-36	6/14/98	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H8F160181-005 CJ349-1-39	6/14/98	Cyanide, Total (9010) (CN_LIQ) METHOD: 9010A
H8F160181-005 CJ349-1-3C	6/14/98	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H8F160181-005-D CJ349-1-2R	6/14/98	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H8F160181-005-D CJ349-1-2X	6/14/98	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H8F160181-005-D CJ349-1-32	6/14/98	Chloride (325.2, Automated) (CL) METHOD: 325.2
H8F160181-005-D CJ349-1-35	6/14/98	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2

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Quanterra Incorporated
SAMPLE ANALYSIS REQUISITION

LABORATORY: Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,BLO MQ

NEED ANALYTICAL REPORT BY
7/08/98
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR011337

CLIENT CODE: 99266 PROJECT MANAGER: John D. Reynolds

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H8F160181-005-D CJ349-1-38	6/14/98	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H8F160181-005-D CJ349-1-3E	6/14/98	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H8F160181-005-S CJ349-1-2Q	6/14/98	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H8F160181-005-S CJ349-1-2W	6/14/98	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H8F160181-005-S CJ349-1-31	6/14/98	Chloride (325.2, Automated) (CL) METHOD: 325.2
H8F160181-005-S CJ349-1-34	6/14/98	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H8F160181-005-S CJ349-1-37	6/14/98	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H8F160181-005-S CJ349-1-3A	6/14/98	Cyanide, Total (9010) (CN_LIQ) METHOD: 9010A
H8F160181-005-S CJ349-1-3D	6/14/98	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDEX DATE: 6/16/98

SEND REPORT TO: JOHN REYNOLDS

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

QUANTERRA - KNOXVILLE

INT: _____ 6/16/98 20:11:32

Quanterra Inc - Tampa FL
5910 Breckenridge Parkway Suite H
Tampa FL 33610,BLO MQ

RELINQUISHED BY: _____ DATE/TIME: _____

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: _____

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

Quote # 23581

[redacted]

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-061698QESK

Project Number: 773701

Samples Shipment Date: 16-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850086

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown |X|

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/16/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client | | Disposal by Lab | | Archive (mos.)

1. Received By (Signature/Affiliation) K Warlenk QES Date: 6-17-98 Time: 0845

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd w/ custody seals INTACT @ 3°C [signature] 6-17-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8260	PBOW-98-SO-WARP-DP05-8260-(000	16-JUN-98	11:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8260	PBOW-98-SO-WARP-DP05-8260-(000	16-JUN-98	11:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8270	PBOW-98-SO-WARP-DP05-8270-(040	16-JUN-98	11:10	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8270	PBOW-98-SO-WARP-DP05-8270-(040	16-JUN-98	11:10	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8270	PBOW-98-SO-WARP-DP05-8270-(040	16-JUN-98	11:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8270	PBOW-98-SO-WARP-DP05-8270-(040	16-JUN-98	11:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8280	PBOW-98-SO-WARP-DP05-8280-(091	16-JUN-98	11:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8280	PBOW-98-SO-WARP-DP05-8280-(091	16-JUN-98	11:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-061698QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8410	PBOW-98-GW-WARP-DP08-8410	16-JUN-98	07:30	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8410	PBOW-98-GW-WARP-DP08-8410	16-JUN-98	07:30	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8420	PBOW-98-SO-WARP-DP09-8420-(000	16-JUN-98	08:15	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8420	PBOW-98-SO-WARP-DP09-8420-(000	16-JUN-98	08:15	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8430	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8430	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8430	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8430	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8430-MS	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8430-MS	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8430-MS	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8430-MS	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8430-MSD	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8430-MSD	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8430-MSD	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8430-MSD	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8431	PBOW-98-SO-WARP-DP09-8431-(040	16-JUN-98	08:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8431	PBOW-98-SO-WARP-DP09-8431-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8431	PBOW-98-SO-WARP-DP09-8431-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8431	PBOW-98-SO-WARP-DP09-8431-(040	16-JUN-98	08:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8440	PBOW-98-SO-WARP-DP09-8440-(091	16-JUN-98	08:45	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8440	PBOW-98-SO-WARP-DP09-8440-(091	16-JUN-98	08:45	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		T= pH 3 D= pH 4
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N		
9034		16-JUN-98	10:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F170165

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?		✓	
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/17/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ? WATER			✓
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/16/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
8450	T+D Metals	4d	Preserve in lab to pH ≤ 2

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/18/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative: (T) pH 3, (D) pH 4
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T.KNX PROJECT: PBOW Lot No.: H8F170165

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/18/98

Add sample 8450 test for NITRATE by MTD 300.0 !! (sample -002)
(do not delete anything else)
BPB 7/2/98

QA016R7.doc, 01/29/98

Quanterra Environmental Services

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

ANALYTICAL REPORT

PROJECT NO. 773701

PBOW-Red Water Ponds
SDG #: PB032

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

July 31, 1998

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB032

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F160182-001		06/16/98	7250
H8F160182-002		06/16/98	7260
H8F160182-003		06/16/98	7370
H8F160182-004		06/16/98	7600
H8F160182-005		06/16/98	7610
H8F160182-006		06/16/98	7620
H8F160182-007		06/16/98	7960
H8F160182-008		06/16/98	7970
H8F160182-009		06/16/98	7980
H8F170153-001		06/17/98	8260
H8F170153-002		06/17/98	8280
H8F170153-003		06/17/98	8420
H8F170153-004		06/17/98	8440
H8F170153-005		06/17/98	8270
H8F170153-006		06/17/98	8430
H8F170153-006	D	06/17/98	8430
H8F170153-006	S	06/17/98	8430
H8F170153-007		06/17/98	8431

Quanterra Environmental Services

SAMPLE SUMMARY

PB032 : H8F160182

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ34T	001	7250	06/14/98	08:00
CJ34V	002	7260	06/14/98	08:10
CJ34W	003	7370	06/14/98	09:50
CJ34X	004	7600	06/13/98	15:40
CJ350	005	7610	06/13/98	15:45
CJ351	006	7620	06/13/98	15:55
CJ352	007	7960	06/13/98	14:25
CJ353	008	7970	06/13/98	14:35
CJ354	009	7980	06/13/98	14:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

Quanterra Environmental Services

PB032 : H8F170153

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ3PC	001	8260	06/16/98	11:05
CJ3PH	002	8280	06/16/98	11:15
CJ3PM	003	8420	06/16/98	08:15
CJ3PQ	004	8440	06/16/98	08:45
CJ3PV	005	8270	06/16/98	11:10
CJ3Q0	006	8430	06/16/98	08:30
CJ3Q6	007	8431	06/16/98	08:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
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- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

PB032

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides and PCBs	SW846 8081
Percent Moisture	MCAWW 160.3 MOD
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Volatiles

Internal standard and/or surrogate recoveries for samples 7980 and 7600 were outside control limits. However, re-analysis of the samples resulted in similar results, indicating that a sample matrix effect is responsible for the criteria not being met. Both sets of data are reported.

Internal standard recoveries for sample 8430 were outside control limits. Since the associated matrix spike/matrix spike duplicate for this sample demonstrated similar surrogate recoveries, the results are attributed to sample matrix effects.

Internal standard recoveries for sample 8431 were outside control limits. However, the sample was not re-analyzed, due to analyst error. Upon further review it was noted that all samples in the analytical batch had similar recoveries that were confirmed by re-analysis. Therefore, the data was submitted as is.

Metals

The matrix spike/matrix spike duplicate recoveries and RPDs for sample 8430 were outside control limits for some analytes. However, the laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

The serial dilution of sample 8430 was outside control limits due to physical or chemical matrix interferences.

Sample Receiving

All sample receipt variances are listed on the enclosed condition upon receipt variance checklist.

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Quanterra Incorporated, Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New Mexico ED, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7260

GC/MS Volatiles

Lot-Sample #...: H8F160182-002 **Work Order #...:** CJ34V202 **Matrix.....:** SOLID
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1
% Moisture.....: 25 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	13	ug/kg
Bromomethane	ND	13	ug/kg
Vinyl chloride	ND	13	ug/kg
Chloroethane	ND	13	ug/kg
Methylene chloride	ND	6.7	ug/kg
Acetone	ND	27	ug/kg
Carbon disulfide	ND	6.7	ug/kg
1,1-Dichloroethene	ND	6.7	ug/kg
1,1-Dichloroethane	ND	6.7	ug/kg
1,2-Dichloroethene (total)	ND	6.7	ug/kg
Chloroform	ND	6.7	ug/kg
1,2-Dichloroethane	ND	6.7	ug/kg
2-Butanone	ND	27	ug/kg
1,1,1-Trichloroethane	ND	6.7	ug/kg
Carbon tetrachloride	ND	6.7	ug/kg
Bromodichloromethane	ND	6.7	ug/kg
1,2-Dichloropropane	ND	6.7	ug/kg
cis-1,3-Dichloropropene	ND	6.7	ug/kg
Trichloroethene	ND	6.7	ug/kg
Dibromochloromethane	ND	6.7	ug/kg
1,1,2-Trichloroethane	ND	6.7	ug/kg
Benzene	ND	6.7	ug/kg
trans-1,3-Dichloropropene	ND	6.7	ug/kg
Bromoform	ND	6.7	ug/kg
4-Methyl-2-pentanone	ND	27	ug/kg
2-Hexanone	ND	27	ug/kg
Tetrachloroethene	ND	6.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.7	ug/kg
Toluene	ND	6.7	ug/kg
Chlorobenzene	ND	6.7	ug/kg
Ethylbenzene	ND	6.7	ug/kg
Styrene	ND	6.7	ug/kg
Xylenes (total)	ND	6.7	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(64 - 135)
Toluene-d8	109	(77 - 124)
4-Bromofluorobenzene	111	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7260

GC/MS Volatiles

Lot-Sample #...: H8F160182-002 **Work Order #...:** CJ34V202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

GC/MS Volatiles

Lot-Sample #...: H8F160182-004 **Work Order #...:** CJ34X102 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	5.8	ug/kg
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(64 - 135)
Toluene-d8	108	(77 - 124)
4-Bromofluorobenzene	125	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

GC/MS Volatiles

Lot-Sample #...: H8F160182-004 **Work Order #...:** CJ34X102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

GC/MS Volatiles

Lot-Sample #...: H8F160182-004 **Work Order #...:** CJ34X202 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**1.8 J,B**	**5.8**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(64 - 135)
Toluene-d8	109	(77 - 124)
4-Bromofluorobenzene	118	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

GC/MS Volatiles

Lot-Sample #...: H8F160182-004 Work Order #...: CJ34X202 Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

GC/MS Volatiles

Lot-Sample #...: H8F160182-009 **Work Order #...:** CJ354102 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(64 - 135)
Toluene-d8	115	(77 - 124)
4-Bromofluorobenzene	134	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

GC/MS Volatiles

Lot-Sample #...: H8F160182-009 **Work Order #...:** CJ354102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

GC/MS Volatiles

Lot-Sample #...: H8F160182-009 **Work Order #...:** CJ354202 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**2.0 J**	**6.2**	**ug/kg**
Acetone	ND	25	ug/kg
Carbon disulfide	**1.8 J**	**6.2**	**ug/kg**
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	116	(64 - 135)
Toluene-d8	135 *	(77 - 124)
4-Bromofluorobenzene	175 *	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

GC/MS Volatiles

Lot-Sample #...: H8F160182-009 Work Order #...: CJ354202 Matrix.....: SOLID

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8270

GC/MS Volatiles

Lot-Sample #...: H8F170153-005 **Work Order #...:** CJ3PV202 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/22/98 **Analysis Date..:** 06/22/98
Prep Batch #...: 8173138
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethene (total)	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
Trichloroethene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Benzene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Toluene	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
Styrene	ND	6.1	ug/kg
Xylenes (total)	ND	6.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(64 - 135)
Toluene-d8	103	(77 - 124)
4-Bromofluorobenzene	110	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8270

GC/MS Volatiles

Lot-Sample #...: H8F170153-005 **Work Order #...:** CJ3PV202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8430

GC/MS Volatiles

Lot-Sample #...: H8F170153-006 **Work Order #...:** CJ3Q0102 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.0	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	122	(64 - 135)
Toluene-d8	118	(77 - 124)
4-Bromofluorobenzene	126	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8430

GC/MS Volatiles

Lot-Sample #...: H8F170153-006 **Work Order #...:** CJ3Q0102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8431

GC/MS Volatiles

Lot-Sample #...: H8F170153-007 **Work Order #...:** CJ3Q6102 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethene (total)	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
Trichloroethene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Benzene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Toluene	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
Styrene	ND	6.1	ug/kg
Xylenes (total)	ND	6.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	116	(64 - 135)
Toluene-d8	120	(77 - 124)
4-Bromofluorobenzene	126	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8431

GC/MS Volatiles

Lot-Sample #...: H8F170153-007 **Work Order #...:** CJ3Q6102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB032 **Work Order #...:** CJ46N101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F180000-123

Prep Date.....: 06/18/98
Analysis Date..: 06/18/98 **Prep Batch #...:** 8169123
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB032 **Work Order #...:** CJ46N102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F180000-123
Prep Date.....: 06/18/98 **Analysis Date..:** 06/18/98
Prep Batch #...: 8169123
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**95**	**(67 - 137)**	**SW846 8260A**
Benzene	**95**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**105**	**(68 - 126)**	**SW846 8260A**
Toluene	**101**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**99**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	98	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB032 **Work Order #...:** CJ5NQ101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F190000-213

Prep Date.....: 06/19/98
Analysis Date..: 06/19/98 **Prep Batch #...:** 8170213
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(64 - 135)
Toluene-d8	108	(77 - 124)
4-Bromofluorobenzene	103	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB032 **Work Order #...:** CJ3Q0103-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F170153-006 CJ3Q0104-MSD
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1 **% Moisture.....:** 16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**118**	**(64 - 146)**			**SW846 8260A**
	110	**(64 - 146)**	**7.2**	**(0-18)**	**SW846 8260A**
Trichloroethene	**116**	**(41 - 151)**			**SW846 8260A**
	109	**(41 - 151)**	**6.0**	**(0-28)**	**SW846 8260A**
Benzene	**115**	**(74 - 122)**			**SW846 8260A**
	110	**(74 - 122)**	**4.3**	**(0-15)**	**SW846 8260A**
Toluene	**129**	**(69 - 132)**			**SW846 8260A**
	131	**(69 - 132)**	**1.4**	**(0-24)**	**SW846 8260A**
Chlorobenzene	**109**	**(67 - 121)**			**SW846 8260A**
	109	**(67 - 121)**	**0.19**	**(0-18)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	120	(64 - 135)
	124	(64 - 135)
Toluene-d8	119	(77 - 124)
	120	(77 - 124)
4-Bromofluorobenzene	111	(70 - 147)
	116	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB032 **Work Order #...:** CJ5NQ102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F190000-213
Prep Date.....: 06/19/98 **Analysis Date..:** 06/19/98
Prep Batch #...: 8170213
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**107**	**(67 - 137)**	**SW846 8260A**
Benzene	**102**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**110**	**(68 - 126)**	**SW846 8260A**
Toluene	**111**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**106**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	100	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB032 **Work Order #...:** CJ6XM101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F220000-138

Prep Date.....: 06/22/98
Analysis Date..: 06/22/98 **Prep Batch #...:** 8173138
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(64 - 135)
Toluene-d8	94	(77 - 124)
4-Bromofluorobenzene	94	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB032 **Work Order #...:** CJ6XM102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F220000-138
Prep Date.....: 06/22/98 **Analysis Date..:** 06/22/98
Prep Batch #...: 8173138
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**84**	**(67 - 137)**	**SW846 8260A**
Benzene	**96**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**98**	**(68 - 126)**	**SW846 8260A**
Toluene	**104**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**102**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	92	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7260

GC/MS Semivolatiles

Lot-Sample #...: H8F160182-002 **Work Order #...:** CJ34V103 **Matrix.....:** SOLID
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 25 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	440	ug/kg
bis(2-Chloroethyl) ether	ND	440	ug/kg
2-Chlorophenol	ND	440	ug/kg
1,3-Dichlorobenzene	ND	440	ug/kg
1,4-Dichlorobenzene	ND	440	ug/kg
1,2-Dichlorobenzene	ND	440	ug/kg
2-Methylphenol	ND	440	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	440	ug/kg
4-Methylphenol	ND	440	ug/kg
N-Nitrosodi-n-propylamine	ND	440	ug/kg
Hexachloroethane	ND	440	ug/kg
Nitrobenzene	ND	440	ug/kg
Isophorone	ND	440	ug/kg
2-Nitrophenol	ND	440	ug/kg
2,4-Dimethylphenol	ND	440	ug/kg
bis(2-Chloroethoxy) methane	ND	440	ug/kg
2,4-Dichlorophenol	ND	440	ug/kg
1,2,4-Trichlorobenzene	ND	440	ug/kg
Naphthalene	ND	440	ug/kg
4-Chloroaniline	ND	440	ug/kg
Hexachlorobutadiene	ND	440	ug/kg
4-Chloro-3-methylphenol	ND	440	ug/kg
2-Methylnaphthalene	ND	440	ug/kg
Hexachlorocyclopentadiene	ND	2100	ug/kg
2,4,6-Trichlorophenol	ND	440	ug/kg
2,4,5-Trichlorophenol	ND	440	ug/kg
2-Chloronaphthalene	ND	440	ug/kg
2-Nitroaniline	ND	2100	ug/kg
Dimethyl phthalate	ND	440	ug/kg
Acenaphthylene	ND	440	ug/kg
2,6-Dinitrotoluene	ND	440	ug/kg
3-Nitroaniline	ND	2100	ug/kg
Acenaphthene	ND	440	ug/kg
2,4-Dinitrophenol	ND	2100	ug/kg
4-Nitrophenol	ND	2100	ug/kg
Dibenzofuran	ND	440	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7260

GC/MS Semivolatiles

Lot-Sample #...: H8F160182-002 **Work Order #...:** CJ34V103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	**81 J**	**440**	**ug/kg**
Diethyl phthalate	ND	440	ug/kg
4-Chlorophenyl phenyl ether	ND	440	ug/kg
Fluorene	ND	440	ug/kg
4-Nitroaniline	ND	2100	ug/kg
4,6-Dinitro-2-methylphenol	ND	2100	ug/kg
N-Nitrosodiphenylamine	ND	440	ug/kg
4-Bromophenyl phenyl ether	ND	440	ug/kg
Hexachlorobenzene	ND	440	ug/kg
Pentachlorophenol	ND	2100	ug/kg
Phenanthrene	ND	440	ug/kg
Anthracene	ND	440	ug/kg
Carbazole	ND	440	ug/kg
Di-n-butyl phthalate	ND	440	ug/kg
Fluoranthene	ND	440	ug/kg
Pyrene	ND	440	ug/kg
Butyl benzyl phthalate	ND	440	ug/kg
3,3'-Dichlorobenzidine	ND	2100	ug/kg
Benzo(a)anthracene	ND	440	ug/kg
Chrysene	ND	440	ug/kg
bis(2-Ethylhexyl) phthalate	ND	440	ug/kg
Di-n-octyl phthalate	ND	440	ug/kg
Benzo(b)fluoranthene	ND	440	ug/kg
Benzo(k)fluoranthene	ND	440	ug/kg
Benzo(a)pyrene	ND	440	ug/kg
Indeno(1,2,3-cd)pyrene	ND	440	ug/kg
Dibenz(a,h)anthracene	ND	440	ug/kg
Benzo(ghi)perylene	ND	440	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	47	(25 - 121)
Phenol-d5	52	(24 - 113)
Nitrobenzene-d5	47	(23 - 120)
2-Fluorobiphenyl	52	(30 - 115)
2,4,6-Tribromophenol	66	(19 - 122)
Terphenyl-d14	65	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

GC/MS Semivolatiles

Lot-Sample #...: H8F160182-004 **Work Order #...:** CJ34X103 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	380	ug/kg
bis(2-Chloroethyl) ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichlorobenzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg
2,4,5-Trichlorophenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	ND	380	ug/kg
2,6-Dinitrotoluene	**50 J**	**380**	**ug/kg**
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	380	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

GC/MS Semivolatiles

Lot-Sample #...: H8F160182-004 **Work Order #...:** CJ34X103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	**160 J**	**380**	**ug/kg**
Diethyl phthalate	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	380	ug/kg
Anthracene	ND	380	ug/kg
Carbazole	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	ND	380	ug/kg
Pyrene	ND	380	ug/kg
Butyl benzyl phthalate	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	380	ug/kg
Chrysene	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	ND	380	ug/kg
Benzo(k)fluoranthene	ND	380	ug/kg
Benzo(a)pyrene	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg
Dibenz(a,h)anthracene	ND	380	ug/kg
Benzo(ghi)perylene	ND	380	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	48	(25 - 121)
Phenol-d5	53	(24 - 113)
Nitrobenzene-d5	49	(23 - 120)
2-Fluorobiphenyl	55	(30 - 115)
2,4,6-Tribromophenol	62	(19 - 122)
Terphenyl-d14	60	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

GC/MS Semivolatiles

Lot-Sample #...: H8F160182-009 **Work Order #...:** CJ354103 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	ND	410	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

GC/MS Semivolatiles

Lot-Sample #...: H8F160182-009 **Work Order #...:** CJ354103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	410	ug/kg
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(25 - 121)
Phenol-d5	51	(24 - 113)
Nitrobenzene-d5	46	(23 - 120)
2-Fluorobiphenyl	51	(30 - 115)
2,4,6-Tribromophenol	58	(19 - 122)
Terphenyl-d14	60	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8270

GC/MS Semivolatiles

Lot-Sample #...: H8F170153-005 **Work Order #...:** CJ3PV103 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8170106
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	400	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8270

GC/MS Semivolatiles

Lot-Sample #...: H8F170153-005 **Work Order #...:** CJ3PV103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	400	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	ND	400	ug/kg
Benzo(k)fluoranthene	ND	400	ug/kg
Benzo(a)pyrene	ND	400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	ND	400	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(25 - 121)
Phenol-d5	74	(24 - 113)
Nitrobenzene-d5	72	(23 - 120)
2-Fluorobiphenyl	71	(30 - 115)
2,4,6-Tribromophenol	80	(19 - 122)
Terphenyl-d14	79	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8430

GC/MS Semivolatiles

Lot-Sample #...: H8F170153-006 **Work Order #...:** CJ3Q0105 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8170106
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	390	ug/kg
bis(2-Chloroethyl) ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	390	ug/kg
4-Methylphenol	ND	390	ug/kg
N-Nitrosodi-n-propylamine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichlorobenzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	390	ug/kg
2,4,5-Trichlorophenol	ND	390	ug/kg
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	390	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8430

GC/MS Semivolatiles

Lot-Sample #...: H8F170153-006 **Work Order #...:** CJ3Q0105 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Carbazole	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	**58 J**	**390**	**ug/kg**
Pyrene	**43 J**	**390**	**ug/kg**
Butyl benzyl phthalate	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(25 - 121)
Phenol-d5	64	(24 - 113)
Nitrobenzene-d5	63	(23 - 120)
2-Fluorobiphenyl	64	(30 - 115)
2,4,6-Tribromophenol	66	(19 - 122)
Terphenyl-d14	68	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8431

GC/MS Semivolatiles

Lot-Sample #...: H8F170153-007 **Work Order #...:** CJ3Q6103 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170106
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	400	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8431

GC/MS Semivolatiles

Lot-Sample #...: H8F170153-007 **Work Order #...:** CJ3Q6103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	**140 J**	**400**	**ug/kg**
Anthracene	**36 J**	**400**	**ug/kg**
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	**240 J**	**400**	**ug/kg**
Pyrene	**180 J**	**400**	**ug/kg**
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	**110 J**	**400**	**ug/kg**
Chrysene	**100 J**	**400**	**ug/kg**
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	**75 J**	**400**	**ug/kg**
Benzo(k)fluoranthene	**87 J**	**400**	**ug/kg**
Benzo(a)pyrene	**84 J**	**400**	**ug/kg**
Indeno(1,2,3-cd)pyrene	**47 J**	**400**	**ug/kg**
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	**46 J**	**400**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(25 - 121)
Phenol-d5	67	(24 - 113)
Nitrobenzene-d5	64	(23 - 120)
2-Fluorobiphenyl	65	(30 - 115)
2,4,6-Tribromophenol	76	(19 - 122)
Terphenyl-d14	69	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ36K101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F170000-131

Prep Date.....: 06/17/98
Analysis Date..: 07/08/98 **Prep Batch #...:** 8168131
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ36K101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(25 - 121)
Phenol-d5	74	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
2-Fluorobiphenyl	63	(30 - 115)
2,4,6-Tribromophenol	51	(19 - 122)
Terphenyl-d14	68	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ36K102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F170000-131
Prep Date.....: 06/17/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8168131
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**67**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**65**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**66**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**57**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**77**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**65**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**68**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**57**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**80**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**77**	**(17 - 117)**	**SW846 8270B**
Pyrene	**74**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
Phenol-d5	67	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
2-Fluorobiphenyl	68	(30 - 115)
2,4,6-Tribromophenol	47	(19 - 122)
Terphenyl-d14	73	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ57C101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F190000-106

Prep Date.....: 06/19/98
Analysis Date..: 07/07/98 **Prep Batch #...:** 8170106
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ57C101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(25 - 121)
Phenol-d5	68	(24 - 113)
Nitrobenzene-d5	68	(23 - 120)
2-Fluorobiphenyl	68	(30 - 115)
2,4,6-Tribromophenol	62	(19 - 122)
Terphenyl-d14	75	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ3Q0106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F170153-006 CJ3Q0107-MSD
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8170106
Dilution Factor: 1 **% Moisture.....:** 16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**71**	**(23 - 115)**			**SW846 8270B**
	73	**(23 - 115)**	**2.8**	**(0-41)**	**SW846 8270B**
2-Chlorophenol	**73**	**(20 - 118)**			**SW846 8270B**
	76	**(20 - 118)**	**3.8**	**(0-42)**	**SW846 8270B**
1,4-Dichlorobenzene	**70**	**(16 - 116)**			**SW846 8270B**
	69	**(16 - 116)**	**1.7**	**(0-43)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**70**	**(12 - 126)**			**SW846 8270B**
	71	**(12 - 126)**	**0.85**	**(0-42)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**82**	**(19 - 124)**			**SW846 8270B**
	80	**(19 - 124)**	**2.2**	**(0-46)**	**SW846 8270B**
4-Chloro-3-methylphenol	**76**	**(28 - 119)**			**SW846 8270B**
	77	**(28 - 119)**	**1.0**	**(0-35)**	**SW846 8270B**
Acenaphthene	**75**	**(23 - 125)**			**SW846 8270B**
	75	**(23 - 125)**	**0.78**	**(0-40)**	**SW846 8270B**
4-Nitrophenol	**72**	**(15 - 130)**			**SW846 8270B**
	76	**(15 - 130)**	**6.5**	**(0-54)**	**SW846 8270B**
2,4-Dinitrotoluene	**81**	**(26 - 122)**			**SW846 8270B**
	83	**(26 - 122)**	**1.5**	**(0-32)**	**SW846 8270B**
Pentachlorophenol	**55**	**(10 - 134)**			**SW846 8270B**
	63	**(10 - 134)**	**14**	**(0-53)**	**SW846 8270B**
Pyrene	**80**	**(28 - 128)**			**SW846 8270B**
	82	**(28 - 128)**	**1.4**	**(0-42)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
	62	(25 - 121)
Phenol-d5	67	(24 - 113)
	70	(24 - 113)
Nitrobenzene-d5	71	(23 - 120)
	70	(23 - 120)
2-Fluorobiphenyl	70	(30 - 115)
	71	(30 - 115)
2,4,6-Tribromophenol	72	(19 - 122)
	73	(19 - 122)
Terphenyl-d14	75	(20 - 138)
	71	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ57C102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F190000-106
Prep Date.....: 06/19/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8170106
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**73**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**68**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**69**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**69**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**79**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**69**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**74**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**76**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**80**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**78**	**(17 - 117)**	**SW846 8270B**
Pyrene	**78**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(25 - 121)
Phenol-d5	72	(24 - 113)
Nitrobenzene-d5	72	(23 - 120)
2-Fluorobiphenyl	73	(30 - 115)
2,4,6-Tribromophenol	54	(19 - 122)
Terphenyl-d14	78	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7260

GC Semivolatiles

Lot-Sample #...:	H8F160182-002	**Work Order #...:**	CJ34V104	**Matrix.....:**	SOLID
Date Sampled...:	06/14/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/17/98	**Analysis Date..:**	07/08/98		
Prep Batch #...:	8168122				
Dilution Factor:	1				
% Moisture.....:	25	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	44	ug/kg
Aroclor 1221	ND	44	ug/kg
Aroclor 1232	ND	44	ug/kg
Aroclor 1242	ND	44	ug/kg
Aroclor 1248	ND	44	ug/kg
Aroclor 1254	ND	44	ug/kg
Aroclor 1260	ND	44	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115	(40 - 134)
Decachlorobiphenyl	108	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

GC Semivolatiles

Lot-Sample #...:	H8F160182-004	**Work Order #...:**	CJ34X104	**Matrix.....:**	SOLID
Date Sampled...:	06/13/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/17/98	**Analysis Date..:**	07/08/98		
Prep Batch #...:	8168122				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	ND	38	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	125	(40 - 134)
Decachlorobiphenyl	107	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

GC Semivolatiles

Lot-Sample #...: H8F160182-009 **Work Order #...:** CJ354104 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
Prep Date.....: 06/17/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8168122
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	130	(40 - 134)
Decachlorobiphenyl	75	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8270

GC Semivolatiles

Lot-Sample #...: H8F170153-005 **Work Order #...:** CJ3PV104 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8170105
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	106	(40 - 134)
Decachlorobiphenyl	107	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8430

GC Semivolatiles

Lot-Sample #...: H8F170153-006 **Work Order #...:** CJ3Q0108 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8170105
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	114	(40 - 134)
Decachlorobiphenyl	103	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8431

GC Semivolatiles

Lot-Sample #...: H8F170153-007 **Work Order #...:** CJ3Q6104 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8170105
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	143 *	(40 - 134)
Decachlorobiphenyl	152	(38 - 174)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ367101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F170000-122

Prep Date.....: 06/17/98
Analysis Date..: 07/07/98 **Prep Batch #...:** 8168122
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(40 - 134)
Decachlorobiphenyl	76	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ367102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F170000-122
Prep Date.....: 06/17/98 **Analysis Date..:** 07/07/98
Prep Batch #...: 8168122
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**92**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**83**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(40 - 134)
Decachlorobiphenyl	85	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ57A101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F190000-105

Prep Date.....: 06/19/98
Analysis Date..: 07/14/98 **Prep Batch #...:** 8170105
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(40 - 134)
Decachlorobiphenyl	92	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ3Q0109-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F170153-006 CJ3Q010A-MSD
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/19/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8170105
Dilution Factor: 1 **% Moisture.....:** 16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**100**	**(52 - 144)**			**SW846 8081**
	104	**(52 - 144)**	**3.2**	**(0-25)**	**SW846 8081**
Aroclor 1260	**95**	**(45 - 143)**			**SW846 8081**
	100	**(45 - 143)**	**5.2**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	87	(40 - 134)
	102	(40 - 134)
Decachlorobiphenyl	96	(38 - 174)
	101	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB032 **Work Order #...:** CJ57A102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F190000-105
Prep Date.....: 06/19/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8170105
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**110**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**98**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(40 - 134)
Decachlorobiphenyl	99	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7250

HPLC

Lot-Sample #...: H8F160182-001 **Work Order #...:** CJ34T102 **Matrix.....:** SOLID
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8174136
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	104	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7260

HPLC

Lot-Sample #...: H8F160182-002 **Work Order #...:** CJ34V105 **Matrix.....:** SOLID
Date Sampled...: 06/14/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8174136
Dilution Factor: 1
% Moisture.....: 25 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**0.28**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	**0.38**	**0.25**	**mg/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	116	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7370

HPLC

Lot-Sample #...:	H8F160182-003	**Work Order #...:**	CJ34W102	**Matrix.....:**	SOLID
Date Sampled...:	06/14/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/23/98	**Analysis Date..:**	07/15/98		
Prep Batch #...:	8174136				
Dilution Factor:	1				
% Moisture.....:	21	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	114	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

HPLC

Lot-Sample #...:	H8F160182-004	**Work Order #...:**	CJ34X105	**Matrix.....:**	SOLID
Date Sampled...:	06/13/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/23/98	**Analysis Date..:**	07/15/98		
Prep Batch #...:	8174136				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	**2.7**	**0.25**	**mg/kg**
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**0.32**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	**0.27**	**0.25**	**mg/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	112	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7610

HPLC

Lot-Sample #...:	H8F160182-005	**Work Order #...:**	CJ350102	**Matrix.....:**	SOLID
Date Sampled...:	06/13/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/23/98	**Analysis Date..:**	07/15/98		
Prep Batch #...:	8174136				
Dilution Factor:	1				
% Moisture.....:	17	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	**0.43**	**0.25**	**mg/kg**
2,4-Dinitrotoluene	**1.6**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	**0.29**	**0.25**	**mg/kg**
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**0.43**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	110	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7620

HPLC

Lot-Sample #...: H8F160182-006 **Work Order #...:** CJ351102 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8174136
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**1.2**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	**0.30**	**0.25**	**mg/kg**
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7620

HPLC

Lot-Sample #...:	H8F160182-006	**Work Order #...:**	CJ351202	**Matrix.....:**	SOLID
Date Sampled...:	06/13/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/23/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8174136				
Dilution Factor:	20				
% Moisture.....:	20	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dinitrobenzene	5.8	5.0	mg/kg
1,3,5-Trinitrobenzene	7.0	5.0	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(72 - 129)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7960

HPLC

Lot-Sample #...:	H8F160182-007	**Work Order #...:**	CJ352102	**Matrix.....:**	SOLID
Date Sampled...:	06/13/98	**Date Received..:**	06/16/98		
Prep Date.....:	06/23/98	**Analysis Date..:**	07/15/98		
Prep Batch #...:	8174136				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene[1]	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7970

HPLC

Lot-Sample #...:	H8F160182-008	Work Order #...:	CJ353102	Matrix.....:	SOLID
Date Sampled...:	06/13/98	Date Received..:	06/16/98		
Prep Date.....:	06/23/98	Analysis Date..:	07/15/98		
Prep Batch #...:	8174136				
Dilution Factor:	1				
% Moisture.....:	18	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

HPLC

Lot-Sample #...: H8F160182-009 Work Order #...: CJ354105 Matrix.....: SOLID
Date Sampled...: 06/13/98 Date Received..: 06/16/98
Prep Date.....: 06/23/98 Analysis Date..: 07/15/98
Prep Batch #...: 8174136
Dilution Factor: 1
% Moisture.....: 19 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	104	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8260

HPLC

Lot-Sample #...:	H8F170153-001	Work Order #...:	CJ3PC102	Matrix.....:	SOLID
Date Sampled...:	06/16/98	Date Received..:	06/17/98		
Prep Date.....:	06/23/98	Analysis Date..:	07/22/98		
Prep Batch #...:	8174136				
Dilution Factor:	1				
% Moisture.....:	11	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	98	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8280

HPLC

Lot-Sample #...: H8F170153-002 **Work Order #...:** CJ3PH102 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/22/98
Prep Batch #...: 8174136
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	99	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8420

HPLC

Lot-Sample #...:	H8F170153-003	**Work Order #...:**	CJ3PM102	**Matrix.....:**	SOLID
Date Sampled...:	06/16/98	**Date Received..:**	06/17/98		
Prep Date.....:	06/23/98	**Analysis Date..:**	07/22/98		
Prep Batch #...:	8174136				
Dilution Factor:	1				
% Moisture.....:	28	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	93	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8440

HPLC

Lot-Sample #...:	H8F170153-004	**Work Order #...:**	CJ3PQ102	**Matrix.....:**	SOLID
Date Sampled...:	06/16/98	**Date Received..:**	06/17/98		
Prep Date.....:	06/23/98	**Analysis Date..:**	07/22/98		
Prep Batch #...:	8174136				
Dilution Factor:	1				
% Moisture.....:	22	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**0.49**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**0.31**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene[s]	101	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8270

HPLC

Lot-Sample #...: H8F170153-005 **Work Order #...:** CJ3PV105 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/22/98
Prep Batch #...: 8174136
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8430

HPLC

Lot-Sample #...: H8F170153-006 Work Order #...: CJ3Q010C Matrix.....: SOLID
Date Sampled...: 06/16/98 Date Received..: 06/17/98
Prep Date.....: 06/23/98 Analysis Date..: 07/22/98
Prep Batch #...: 8174136
Dilution Factor: 1
% Moisture.....: 16 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene*	102	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8431

HPLC

Lot-Sample #...: H8F170153-007 **Work Order #...:** CJ3Q6105 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
Prep Date.....: 06/23/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8174136
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB032 **Work Order #...:** CJ7W6101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F230000-136

Prep Date.....: 06/23/98
Analysis Date..: 07/22/98 **Prep Batch #...:** 8174136
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB032
MS Lot-Sample #: H8F170153-006
Date Sampled...: 06/16/98
Prep Date.....: 06/23/98
Prep Batch #...: 8174136
Dilution Factor: 1

Work Order #...: CJ3Q010D-MS
CJ3Q010E-MSD
Date Received..: 06/17/98
Analysis Date..: 07/22/98
% Moisture.....: 16

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	86	(76 - 120)			SW846 8330
	90	(76 - 120)	4.1	(0-15)	SW846 8330
4-Nitrotoluene	89	(76 - 122)			SW846 8330
	91	(76 - 122)	2.7	(0-25)	SW846 8330
HMX	79	(48 - 125)			SW846 8330
	81	(48 - 125)	2.4	(0-15)	SW846 8330
RDX	88	(61 - 127)			SW846 8330
	87	(61 - 127)	0.62	(0-15)	SW846 8330
1,3,5-Trinitrobenzene	96	(74 - 126)			SW846 8330
	98	(74 - 126)	1.9	(0-15)	SW846 8330
1,3-Dinitrobenzene	92	(71 - 126)			SW846 8330
	93	(71 - 126)	1.3	(0-15)	SW846 8330
Tetryl	59	(32 - 143)			SW846 8330
	69	(32 - 143)	15	(0-26)	SW846 8330
Nitrobenzene	92	(76 - 122)			SW846 8330
	94	(76 - 122)	2.0	(0-15)	SW846 8330
2,4,6-Trinitrotoluene	84	(69 - 132)			SW846 8330
	86	(69 - 132)	2.5	(0-15)	SW846 8330
4-Amino-2,6-dinitrotoluen	83	(67 - 127)			SW846 8330
	90	(67 - 127)	7.8	(0-15)	SW846 8330
2,6-Dinitrotoluene	91	(75 - 122)			SW846 8330
	96	(75 - 122)	5.6	(0-15)	SW846 8330
2,4-Dinitrotoluene	90	(75 - 124)			SW846 8330
	94	(75 - 124)	3.6	(0-15)	SW846 8330
2-Nitrotoluene	92	(77 - 125)			SW846 8330
	95	(77 - 125)	2.7	(0-15)	SW846 8330
3-Nitrotoluene	90	(76 - 121)			SW846 8330
	92	(76 - 121)	1.7	(0-15)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)
	97	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB032 **Work Order #...:** CJ7W6102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F230000-136
Prep Date.....: 06/23/98 **Analysis Date..:** 07/22/98
Prep Batch #...: 8174136
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**84**	**(65 - 117)**	**SW846 8330**
RDX	**92**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**98**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**93**	**(75 - 123)**	**SW846 8330**
Tetryl	**70**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**94**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**79**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**94**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**95**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**92**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**92**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**92**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**91**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**92**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	104	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7250

TOTAL Metals

Lot-Sample #...: H8F160182-001 Matrix.....: SOLID
Date Sampled...: 06/14/98 Date Received..: 06/16/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	0.045	0.041	mg/kg	SW846 7471A	06/30/98	CJ34T10T
		Dilution Factor: 1		Analysis Time..: 14:36		
Prep Batch #...: 8181152						
Aluminum	11200	24.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T103
		Dilution Factor: 1		Analysis Time..: 17:07		
Arsenic	6.1	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ34T10N
		Dilution Factor: 1		Analysis Time..: 14:27		
Lead	7.8	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ34T10P
		Dilution Factor: 1		Analysis Time..: 14:27		
Antimony	ND	7.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T104
		Dilution Factor: 1		Analysis Time..: 17:07		
Barium	61.5	24.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T105
		Dilution Factor: 1		Analysis Time..: 17:07		
Selenium	0.69	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ34T10Q
		Dilution Factor: 1		Analysis Time..: 14:27		
Beryllium	0.68	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T106
		Dilution Factor: 1		Analysis Time..: 17:07		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ34T10R
		Dilution Factor: 1		Analysis Time..: 14:27		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T107
		Dilution Factor: 1		Analysis Time..: 17:07		
Calcium	3670	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T108
		Dilution Factor: 1		Analysis Time..: 17:07		
Chromium	20.4	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T109
		Dilution Factor: 1		Analysis Time..: 17:07		
Cobalt	11.2	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10A
		Dilution Factor: 1		Analysis Time..: 17:07		
Iron	21900	12.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10D
		Dilution Factor: 1		Analysis Time..: 17:07		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7250

TOTAL Metals

Lot-Sample #...: H8F160182-001 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	2590	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10E
		Dilution Factor: 1		Analysis Time..: 17:07		
Manganese	315	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10F
		Dilution Factor: 1		Analysis Time..: 17:07		
Nickel	25.6	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10G
		Dilution Factor: 1		Analysis Time..: 17:07		
Potassium	916	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10H
		Dilution Factor: 1		Analysis Time..: 17:07		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10J
		Dilution Factor: 1		Analysis Time..: 17:07		
Sodium	ND	620	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10K
		Dilution Factor: 1		Analysis Time..: 17:07		
Vanadium	27.3	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10L
		Dilution Factor: 1		Analysis Time..: 17:07		
Zinc	64.6	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ34T10M
		Dilution Factor: 1		Analysis Time..: 17:07		
Prep Batch #...: 8189178						
Copper	14.5	3.1	mg/kg	SW846 6010A	07/08-07/09/98	CJ34T20C
		Dilution Factor: 1		Analysis Time..: 17:54		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7260

TOTAL Metals

Lot-Sample #...: H8F160182-002 Matrix.....: SOLID
Date Sampled...: 06/14/98 Date Received..: 06/16/98
% Moisture.....: 25

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.044	mg/kg	SW846 7471A	06/30/98	CJ34V10W
		Dilution Factor: 1		Analysis Time..: 14:39		
Prep Batch #...: 8181152						
Aluminum	11500	26.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V106
		Dilution Factor: 1		Analysis Time..: 17:12		
Arsenic	12.5	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ34V10R
		Dilution Factor: 1		Analysis Time..: 14:33		
Lead	12.2	0.40	mg/kg	SW846 6010A	06/30-07/07/98	CJ34V10T
		Dilution Factor: 1		Analysis Time..: 14:33		
Antimony	ND	8.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V107
		Dilution Factor: 1		Analysis Time..: 17:12		
Barium	91.9	26.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V108
		Dilution Factor: 1		Analysis Time..: 17:12		
Selenium	0.82	0.67	mg/kg	SW846 6010A	06/30-07/07/98	CJ34V10U
		Dilution Factor: 1		Analysis Time..: 14:33		
Beryllium	ND	0.67	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V109
		Dilution Factor: 1		Analysis Time..: 17:12		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ34V10V
		Dilution Factor: 1		Analysis Time..: 14:33		
Cadmium	ND	0.67	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10A
		Dilution Factor: 1		Analysis Time..: 17:12		
Calcium	7720	667	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10C
		Dilution Factor: 1		Analysis Time..: 17:12		
Chromium	20.8	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10D
		Dilution Factor: 1		Analysis Time..: 17:12		
Cobalt	13.6	6.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10E
		Dilution Factor: 1		Analysis Time..: 17:12		
Iron	23800	13.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10G
		Dilution Factor: 1		Analysis Time..: 17:12		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7260

TOTAL Metals

Lot-Sample #...: H8F160182-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	5650	667	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10H
		Dilution Factor: 1		Analysis Time..: 17:12		
Manganese	521	2.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10J
		Dilution Factor: 1		Analysis Time..: 17:12		
Nickel	32.2	5.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10K
		Dilution Factor: 1		Analysis Time..: 17:12		
Potassium	1630	667	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10L
		Dilution Factor: 1		Analysis Time..: 17:12		
Silver	ND	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10M
		Dilution Factor: 1		Analysis Time..: 17:12		
Sodium	ND	667	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10N
		Dilution Factor: 1		Analysis Time..: 17:12		
Vanadium	26.2	6.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10P
		Dilution Factor: 1		Analysis Time..: 17:12		
Zinc	70.3	2.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ34V10Q
		Dilution Factor: 1		Analysis Time..: 17:12		
Prep Batch #...: 8189178						
Copper	25.8	3.3	mg/kg	SW846 6010A	07/08-07/09/98	CJ34V20F
		Dilution Factor: 1		Analysis Time..: 17:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7370

TOTAL Metals

Lot-Sample #...: H8F160182-003 Matrix.....: SOLID
Date Sampled...: 06/14/98 Date Received..: 06/16/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.042	mg/kg	SW846 7471A	06/30/98	CJ34W10T
		Dilution Factor: 1		Analysis Time..: 14:41		
Prep Batch #...: 8181152						
Aluminum	11300	25.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W103
		Dilution Factor: 1		Analysis Time..: 17:17		
Arsenic	42.8	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ34W10N
		Dilution Factor: 1		Analysis Time..: 14:39		
Lead	10.6	0.38	mg/kg	SW846 6010A	06/30-07/07/98	CJ34W10P
		Dilution Factor: 1		Analysis Time..: 14:39		
Antimony	9.3	7.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W104
		Dilution Factor: 1		Analysis Time..: 17:17		
Barium	128	25.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W105
		Dilution Factor: 1		Analysis Time..: 17:17		
Selenium	ND	0.63	mg/kg	SW846 6010A	06/30-07/07/98	CJ34W10Q
		Dilution Factor: 1		Analysis Time..: 14:39		
Beryllium	0.67	0.63	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W106
		Dilution Factor: 1		Analysis Time..: 17:17		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ34W10R
		Dilution Factor: 1		Analysis Time..: 14:39		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W107
		Dilution Factor: 1		Analysis Time..: 17:17		
Calcium	58500	631	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W108
		Dilution Factor: 1		Analysis Time..: 17:17		
Chromium	18.4	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W109
		Dilution Factor: 1		Analysis Time..: 17:17		
Cobalt	19.0	6.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10A
		Dilution Factor: 1		Analysis Time..: 17:17		
Iron	43700	12.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10D
		Dilution Factor: 1		Analysis Time..: 17:17		

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7370

TOTAL Metals

Lot-Sample #...: H8F160182-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	17400	631	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10E
		Dilution Factor: 1		Analysis Time..: 17:17		
Manganese	797	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10F
		Dilution Factor: 1		Analysis Time..: 17:17		
Nickel	40.1	5.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10G
		Dilution Factor: 1		Analysis Time..: 17:17		
Potassium	2250	631	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10H
		Dilution Factor: 1		Analysis Time..: 17:17		
Silver	ND	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10J
		Dilution Factor: 1		Analysis Time..: 17:17		
Sodium	ND	631	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10K
		Dilution Factor: 1		Analysis Time..: 17:17		
Vanadium	38.4	6.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10L
		Dilution Factor: 1		Analysis Time..: 17:17		
Zinc	104	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ34W10M
		Dilution Factor: 1		Analysis Time..: 17:17		
Prep Batch #...: 8189178						
Copper	24.6	3.2	mg/kg	SW846 6010A	07/08-07/09/98	CJ34W20C
		Dilution Factor: 1		Analysis Time..: 18:04		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

TOTAL Metals

Lot-Sample #...: H8F160182-004 Matrix.....: SOLID
Date Sampled...: 06/13/98 Date Received..: 06/16/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/30/98	CJ34X10W
		Dilution Factor: 1		Analysis Time..: 14:48		
Prep Batch #...: 8181152						
Aluminum	6200	23.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X106
		Dilution Factor: 1		Analysis Time..: 17:22		
Arsenic	7.0	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ34X10R
		Dilution Factor: 1		Analysis Time..: 15:06		
Lead	7.9	0.35	mg/kg	SW846 6010A	06/30-07/07/98	CJ34X10T
		Dilution Factor: 1		Analysis Time..: 15:06		
Antimony	ND	6.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X107
		Dilution Factor: 1		Analysis Time..: 17:22		
Barium	39.4	23.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X108
		Dilution Factor: 1		Analysis Time..: 17:22		
Selenium	ND	0.58	mg/kg	SW846 6010A	06/30-07/07/98	CJ34X10U
		Dilution Factor: 1		Analysis Time..: 15:06		
Beryllium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X109
		Dilution Factor: 1		Analysis Time..: 17:22		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ34X10V
		Dilution Factor: 1		Analysis Time..: 15:06		
Cadmium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10A
		Dilution Factor: 1		Analysis Time..: 17:22		
Calcium	17300	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10C
		Dilution Factor: 1		Analysis Time..: 17:22		
Chromium	11.2	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10D
		Dilution Factor: 1		Analysis Time..: 17:22		
Cobalt	7.4	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10E
		Dilution Factor: 1		Analysis Time..: 17:22		
Iron	14700	11.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10G
		Dilution Factor: 1		Analysis Time..: 17:22		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7600

TOTAL Metals

Lot-Sample #...: H8F160182-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	6390	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10H
		Dilution Factor: 1		Analysis Time..: 17:22		
Manganese	365	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10J
		Dilution Factor: 1		Analysis Time..: 17:22		
Nickel	14.4	4.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10K
		Dilution Factor: 1		Analysis Time..: 17:22		
Potassium	849	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10L
		Dilution Factor: 1		Analysis Time..: 17:22		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10M
		Dilution Factor: 1		Analysis Time..: 17:22		
Sodium	741	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10N
		Dilution Factor: 1		Analysis Time..: 17:22		
Vanadium	20.1	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10P
		Dilution Factor: 1		Analysis Time..: 17:22		
Zinc	39.1	2.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ34X10Q
		Dilution Factor: 1		Analysis Time..: 17:22		
Prep Batch #...: 8189178						
Copper	10.1	2.9	mg/kg	SW846 6010A	07/08-07/09/98	CJ34X20F
		Dilution Factor: 1		Analysis Time..: 18:09		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7610

TOTAL Metals

Lot-Sample #...: H8F160182-005 Matrix.....: SOLID
Date Sampled...: 06/13/98 Date Received..: 06/16/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ35010T
		Dilution Factor: 1		Analysis Time..: 14:51		
Prep Batch #...: 8181152						
Aluminum	8950	24.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ350103
		Dilution Factor: 1		Analysis Time..: 17:27		
Arsenic	25.3	2.4	mg/kg	SW846 6010A	06/30-07/07/98	CJ35010N
		Dilution Factor: 2		Analysis Time..: 15:12		
Lead	9.8	0.72	mg/kg	SW846 6010A	06/30-07/07/98	CJ35010P
		Dilution Factor: 2		Analysis Time..: 15:12		
Antimony	ND	7.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ350104
		Dilution Factor: 1		Analysis Time..: 17:27		
Barium	209	24.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ350105
		Dilution Factor: 1		Analysis Time..: 17:27		
Selenium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ35010Q
		Dilution Factor: 2		Analysis Time..: 15:12		
Beryllium	0.66	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ350106
		Dilution Factor: 1		Analysis Time..: 17:27		
Thallium	ND	2.4	mg/kg	SW846 6010A	06/30-07/07/98	CJ35010R
		Dilution Factor: 2		Analysis Time..: 15:12		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ350107
		Dilution Factor: 1		Analysis Time..: 17:27		
Calcium	3380	603	mg/kg	SW846 6010A	06/30-07/06/98	CJ350108
		Dilution Factor: 1		Analysis Time..: 17:27		
Chromium	11.0	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ350109
		Dilution Factor: 1		Analysis Time..: 17:27		
Cobalt	30.3	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010A
		Dilution Factor: 1		Analysis Time..: 17:27		
Iron	36200	12.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010D
		Dilution Factor: 1		Analysis Time..: 17:27		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7610

TOTAL Metals

Lot-Sample #...: H8F160182-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	2500	603	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010E
		Dilution Factor: 1		Analysis Time..: 17:27		
Manganese	1640	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010F
		Dilution Factor: 1		Analysis Time..: 17:27		
Nickel	26.8	4.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010G
		Dilution Factor: 1		Analysis Time..: 17:27		
Potassium	1060	603	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010H
		Dilution Factor: 1		Analysis Time..: 17:27		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010J
		Dilution Factor: 1		Analysis Time..: 17:27		
Sodium	1200	603	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010K
		Dilution Factor: 1		Analysis Time..: 17:27		
Vanadium	34.2	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010L
		Dilution Factor: 1		Analysis Time..: 17:27		
Zinc	68.5	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ35010M
		Dilution Factor: 1		Analysis Time..: 17:27		
Prep Batch #...: 8189178						
Copper	13.1	3.0	mg/kg	SW846 6010A	07/08-07/09/98	CJ35020C
		Dilution Factor: 1		Analysis Time..: 18:14		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7620

TOTAL Metals

Lot-Sample #...: H8F160182-006 Matrix.....: SOLID
Date Sampled...: 06/13/98 Date Received..: 06/16/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/30/98	CJ35110T
		Dilution Factor: 1		Analysis Time..: 14:53		
Prep Batch #...: 8181152						
Aluminum	11200	25.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ351103
		Dilution Factor: 1		Analysis Time..: 17:32		
Arsenic	5.3	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ35110N
		Dilution Factor: 1		Analysis Time..: 15:17		
Lead	9.9	0.38	mg/kg	SW846 6010A	06/30-07/07/98	CJ35110P
		Dilution Factor: 1		Analysis Time..: 15:17		
Antimony	ND	7.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ351104
		Dilution Factor: 1		Analysis Time..: 17:32		
Barium	51.5	25.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ351105
		Dilution Factor: 1		Analysis Time..: 17:32		
Selenium	ND	0.63	mg/kg	SW846 6010A	06/30-07/07/98	CJ35110Q
		Dilution Factor: 1		Analysis Time..: 15:17		
Beryllium	ND	0.63	mg/kg	SW846 6010A	06/30-07/06/98	CJ351106
		Dilution Factor: 1		Analysis Time..: 17:32		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ35110R
		Dilution Factor: 1		Analysis Time..: 15:17		
Cadmium	ND	0.63	mg/kg	SW846 6010A	06/30-07/06/98	CJ351107
		Dilution Factor: 1		Analysis Time..: 17:32		
Calcium	61600	628	mg/kg	SW846 6010A	06/30-07/06/98	CJ351108
		Dilution Factor: 1		Analysis Time..: 17:32		
Chromium	19.0	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ351109
		Dilution Factor: 1		Analysis Time..: 17:32		
Cobalt	10.8	6.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110A
		Dilution Factor: 1		Analysis Time..: 17:32		
Iron	20800	12.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110D
		Dilution Factor: 1		Analysis Time..: 17:32		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7620

TOTAL Metals

Lot-Sample #...: H8F160182-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	20500	628	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110E
		Dilution Factor: 1		Analysis Time..: 17:32		
Manganese	457	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110F
		Dilution Factor: 1		Analysis Time..: 17:32		
Nickel	30.1	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110G
		Dilution Factor: 1		Analysis Time..: 17:32		
Potassium	2580	628	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110H
		Dilution Factor: 1		Analysis Time..: 17:32		
Silver	ND	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110J
		Dilution Factor: 1		Analysis Time..: 17:32		
Sodium	1520	628	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110K
		Dilution Factor: 1		Analysis Time..: 17:32		
Vanadium	31.0	6.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110L
		Dilution Factor: 1		Analysis Time..: 17:32		
Zinc	62.2	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ35110M
		Dilution Factor: 1		Analysis Time..: 17:32		
Prep Batch #...: 8189178						
Copper	23.3	3.1	mg/kg	SW846 6010A	07/08-07/09/98	CJ35120C
		Dilution Factor: 1		Analysis Time..: 18:19		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7960

TOTAL Metals

Lot-Sample #...: H8F160182-007 **Matrix.....:** SOLID
Date Sampled...: 06/13/98 **Date Received..:** 06/16/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.038	mg/kg	SW846 7471A	06/30/98	CJ35210T
		Dilution Factor: 1		Analysis Time..: 14:55		
Prep Batch #...: 8181152						
Aluminum	5360	23.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ352103
		Dilution Factor: 1		Analysis Time..: 17:37		
Arsenic	3.6	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ35210N
		Dilution Factor: 1		Analysis Time..: 15:23		
Lead	3.2	0.35	mg/kg	SW846 6010A	06/30-07/07/98	CJ35210P
		Dilution Factor: 1		Analysis Time..: 15:23		
Antimony	ND	6.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ352104
		Dilution Factor: 1		Analysis Time..: 17:37		
Barium	ND	23.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ352105
		Dilution Factor: 1		Analysis Time..: 17:37		
Selenium	ND	0.58	mg/kg	SW846 6010A	06/30-07/07/98	CJ35210Q
		Dilution Factor: 1		Analysis Time..: 15:23		
Beryllium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ352106
		Dilution Factor: 1		Analysis Time..: 17:37		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ35210R
		Dilution Factor: 1		Analysis Time..: 15:23		
Cadmium	ND	0.58	mg/kg	SW846 6010A	06/30-07/06/98	CJ352107
		Dilution Factor: 1		Analysis Time..: 17:37		
Calcium	2160	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ352108
		Dilution Factor: 1		Analysis Time..: 17:37		
Chromium	11.4	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ352109
		Dilution Factor: 1		Analysis Time..: 17:37		
Cobalt	5.8	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210A
		Dilution Factor: 1		Analysis Time..: 17:37		
Iron	16000	11.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210D
		Dilution Factor: 1		Analysis Time..: 17:37		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7960

TOTAL Metals

Lot-Sample #...: H8F160182-007 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	999	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210E
		Dilution Factor: 1		Analysis Time..: 17:37		
Manganese	262	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210F
		Dilution Factor: 1		Analysis Time..: 17:37		
Nickel	9.3	4.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210G
		Dilution Factor: 1		Analysis Time..: 17:37		
Potassium	ND	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210H
		Dilution Factor: 1		Analysis Time..: 17:37		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210J
		Dilution Factor: 1		Analysis Time..: 17:37		
Sodium	ND	578	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210K
		Dilution Factor: 1		Analysis Time..: 17:37		
Vanadium	27.6	5.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210L
		Dilution Factor: 1		Analysis Time..: 17:37		
Zinc	26.0	2.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ35210M
		Dilution Factor: 1		Analysis Time..: 17:37		
Prep Batch #...: 8189178						
Copper	7.2	2.9	mg/kg	SW846 6010A	07/08-07/09/98	CJ35220C
		Dilution Factor: 1		Analysis Time..: 18:24		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7970

TOTAL Metals

Lot-Sample #...: H8F160182-008 Matrix.....: SOLID
Date Sampled...: 06/13/98 Date Received..: 06/16/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ35310T
		Dilution Factor: 1		Analysis Time..: 14:58		
Prep Batch #...: 8181152						
Aluminum	7580	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ353103
		Dilution Factor: 1		Analysis Time..: 17:42		
Arsenic	4.7	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ35310N
		Dilution Factor: 1		Analysis Time..: 15:28		
Lead	9.0	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ35310P
		Dilution Factor: 1		Analysis Time..: 15:28		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ353104
		Dilution Factor: 1		Analysis Time..: 17:42		
Barium	58.2	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ353105
		Dilution Factor: 1		Analysis Time..: 17:42		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/30-07/07/98	CJ35310Q
		Dilution Factor: 1		Analysis Time..: 15:28		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ353106
		Dilution Factor: 1		Analysis Time..: 17:42		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ35310R
		Dilution Factor: 1		Analysis Time..: 15:28		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ353107
		Dilution Factor: 1		Analysis Time..: 17:42		
Calcium	61900	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ353108
		Dilution Factor: 1		Analysis Time..: 17:42		
Chromium	13.1	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ353109
		Dilution Factor: 1		Analysis Time..: 17:42		
Cobalt	9.3	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ35310A
		Dilution Factor: 1		Analysis Time..: 17:42		
Iron	18000	12.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ35310D
		Dilution Factor: 1		Analysis Time..: 17:42		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7970

TOTAL Metals

Lot-Sample #...: H8F160182-008 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**24600**	**611**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ35310E**
		Dilution Factor: 1		Analysis Time..: 17:42		
Manganese	**527**	**1.8**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ35310F**
		Dilution Factor: 1		Analysis Time..: 17:42		
Nickel	**24.0**	**4.9**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ35310G**
		Dilution Factor: 1		Analysis Time..: 17:42		
Potassium	**1610**	**611**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ35310H**
		Dilution Factor: 1		Analysis Time..: 17:42		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ35310J
		Dilution Factor: 1		Analysis Time..: 17:42		
Sodium	ND	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ35310K
		Dilution Factor: 1		Analysis Time..: 17:42		
Vanadium	**23.8**	**6.1**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ35310L**
		Dilution Factor: 1		Analysis Time..: 17:42		
Zinc	**50.6**	**2.4**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ35310M**
		Dilution Factor: 1		Analysis Time..: 17:42		
Prep Batch #...: 8189178						
Copper	**18.3**	**3.1**	**mg/kg**	**SW846 6010A**	**07/08-07/09/98**	**CJ35320C**
		Dilution Factor: 1		Analysis Time..: 18:39		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

TOTAL Metals

Lot-Sample #...: H8F160182-009 Matrix.....: SOLID
Date Sampled...: 06/13/98 Date Received..: 06/16/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.041	mg/kg	SW846 7471A	06/30/98	CJ35410W
		Dilution Factor: 1		Analysis Time..: 15:00		
Prep Batch #...: 8181152						
Aluminum	10800	24.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ354106
		Dilution Factor: 1		Analysis Time..: 17:57		
Arsenic	5.5	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ35410R
		Dilution Factor: 1		Analysis Time..: 15:34		
Lead	9.7	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ35410T
		Dilution Factor: 1		Analysis Time..: 15:34		
Antimony	7.7	7.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ354107
		Dilution Factor: 1		Analysis Time..: 17:57		
Barium	69.3	24.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ354108
		Dilution Factor: 1		Analysis Time..: 17:57		
Selenium	ND	0.62	mg/kg	SW846 6010A	06/30-07/07/98	CJ35410U
		Dilution Factor: 1		Analysis Time..: 15:34		
Beryllium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ354109
		Dilution Factor: 1		Analysis Time..: 17:57		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ35410V
		Dilution Factor: 1		Analysis Time..: 15:34		
Cadmium	ND	0.62	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410A
		Dilution Factor: 1		Analysis Time..: 17:57		
Calcium	70400	615	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410C
		Dilution Factor: 1		Analysis Time..: 17:57		
Chromium	17.0	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410D
		Dilution Factor: 1		Analysis Time..: 17:57		
Cobalt	11.3	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410E
		Dilution Factor: 1		Analysis Time..: 17:57		
Iron	22500	12.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410G
		Dilution Factor: 1		Analysis Time..: 17:57		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7980

TOTAL Metals

Lot-Sample #...: H8F160182-009 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	20200	615	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410H
		Dilution Factor: 1		Analysis Time..: 17:57		
Manganese	513	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410J
		Dilution Factor: 1		Analysis Time..: 17:57		
Nickel	29.6	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410K
		Dilution Factor: 1		Analysis Time..: 17:57		
Potassium	2640	615	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410L
		Dilution Factor: 1		Analysis Time..: 17:57		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410M
		Dilution Factor: 1		Analysis Time..: 17:57		
Sodium	ND	615	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410N
		Dilution Factor: 1		Analysis Time..: 17:57		
Vanadium	28.6	6.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410P
		Dilution Factor: 1		Analysis Time..: 17:57		
Zinc	69.5	2.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ35410Q
		Dilution Factor: 1		Analysis Time..: 17:57		
Prep Batch #...: 8189178						
Copper	20.1	3.1	mg/kg	SW846 6010A	07/08-07/09/98	CJ35420F
		Dilution Factor: 1		Analysis Time..: 18:44		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8260

TOTAL Metals

Lot-Sample #...: H8F170153-001 Matrix.....: SOLID
Date Sampled...: 06/16/98 Date Received..: 06/17/98
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.037	mg/kg	SW846 7471A	06/30/98	CJ3PC10T
		Dilution Factor: 1		Analysis Time..: 15:03		
Prep Batch #...: 8181152						
Aluminum	8120	22.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC103
		Dilution Factor: 1		Analysis Time..: 18:02		
Arsenic	4.8	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PC10N
		Dilution Factor: 1		Analysis Time..: 15:39		
Lead	6.1	0.34	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PC10P
		Dilution Factor: 1		Analysis Time..: 15:39		
Antimony	ND	6.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC104
		Dilution Factor: 1		Analysis Time..: 18:02		
Barium	51.2	22.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC105
		Dilution Factor: 1		Analysis Time..: 18:02		
Selenium	ND	0.56	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PC10Q
		Dilution Factor: 1		Analysis Time..: 15:39		
Beryllium	ND	0.56	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC106
		Dilution Factor: 1		Analysis Time..: 18:02		
Thallium	ND	1.1	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PC10R
		Dilution Factor: 1		Analysis Time..: 15:39		
Cadmium	ND	0.56	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC107
		Dilution Factor: 1		Analysis Time..: 18:02		
Calcium	2390	561	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC108
		Dilution Factor: 1		Analysis Time..: 18:02		
Chromium	13.1	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC109
		Dilution Factor: 1		Analysis Time..: 18:02		
Cobalt	8.5	5.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10A
		Dilution Factor: 1		Analysis Time..: 18:02		
Iron	17600	11.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10D
		Dilution Factor: 1		Analysis Time..: 18:02		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8260

TOTAL Metals

Lot-Sample #...: H8F170153-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	2150	561	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10E
		Dilution Factor: 1		Analysis Time..: 18:02		
Manganese	468	1.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10F
		Dilution Factor: 1		Analysis Time..: 18:02		
Nickel	17.0	4.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10G
		Dilution Factor: 1		Analysis Time..: 18:02		
Potassium	813	561	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10H
		Dilution Factor: 1		Analysis Time..: 18:02		
Silver	ND	1.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10J
		Dilution Factor: 1		Analysis Time..: 18:02		
Sodium	ND	561	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10K
		Dilution Factor: 1		Analysis Time..: 18:02		
Vanadium	24.1	5.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10L
		Dilution Factor: 1		Analysis Time..: 18:02		
Zinc	40.4	2.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PC10M
		Dilution Factor: 1		Analysis Time..: 18:02		
Prep Batch #...: 8189178						
Copper	11.7	2.8	mg/kg	SW846 6010A	07/08-07/09/98	CJ3PC20C
		Dilution Factor: 1		Analysis Time..: 18:49		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8280

TOTAL Metals

Lot-Sample #...: H8F170153-002 Matrix.....: SOLID
Date Sampled...: 06/16/98 Date Received..: 06/17/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ3PH10T
		Dilution Factor: 1		Analysis Time..: 15:05		
Prep Batch #...: 8181152						
Aluminum	9510	24.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH103
		Dilution Factor: 1		Analysis Time..: 18:07		
Arsenic	6.7	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PH10N
		Dilution Factor: 1		Analysis Time..: 15:45		
Lead	8.4	0.36	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PH10P
		Dilution Factor: 1		Analysis Time..: 15:45		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH104
		Dilution Factor: 1		Analysis Time..: 18:07		
Barium	54.3	24.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH105
		Dilution Factor: 1		Analysis Time..: 18:07		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PH10Q
		Dilution Factor: 1		Analysis Time..: 15:45		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH106
		Dilution Factor: 1		Analysis Time..: 18:07		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PH10R
		Dilution Factor: 1		Analysis Time..: 15:45		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH107
		Dilution Factor: 1		Analysis Time..: 18:07		
Calcium	50400	608	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH108
		Dilution Factor: 1		Analysis Time..: 18:07		
Chromium	17.4	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH109
		Dilution Factor: 1		Analysis Time..: 18:07		
Cobalt	9.2	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10A
		Dilution Factor: 1		Analysis Time..: 18:07		
Iron	18200	12.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10D
		Dilution Factor: 1		Analysis Time..: 18:07		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8280

TOTAL Metals

Lot-Sample #...: H8F170153-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	14800	608	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10E
		Dilution Factor: 1		Analysis Time..: 18:07		
Manganese	362	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10F
		Dilution Factor: 1		Analysis Time..: 18:07		
Nickel	21.7	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10G
		Dilution Factor: 1		Analysis Time..: 18:07		
Potassium	1730	608	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10H
		Dilution Factor: 1		Analysis Time..: 18:07		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10J
		Dilution Factor: 1		Analysis Time..: 18:07		
Sodium	ND	608	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10K
		Dilution Factor: 1		Analysis Time..: 18:07		
Vanadium	25.9	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10L
		Dilution Factor: 1		Analysis Time..: 18:07		
Zinc	53.4	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PH10M
		Dilution Factor: 1		Analysis Time..: 18:07		
Prep Batch #...: 8189178						
Copper	19.0	3.0	mg/kg	SW846 6010A	07/08-07/09/98	CJ3PH20C
		Dilution Factor: 1		Analysis Time..: 18:54		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8420

TOTAL Metals

Lot-Sample #...: H8F170153-003 Matrix.....: SOLID
Date Sampled...: 06/16/98 Date Received..: 06/17/98
% Moisture.....: 28

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	0.10	0.046	mg/kg	SW846 7471A	06/30/98	CJ3PM10T
		Dilution Factor: 1		Analysis Time..: 15:07		
Prep Batch #...: 8181152						
Aluminum	7610	27.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM103
		Dilution Factor: 1		Analysis Time..: 18:12		
Arsenic	6.8	1.4	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PM10N
		Dilution Factor: 1		Analysis Time..: 15:51		
Lead	11.7	0.42	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PM10P
		Dilution Factor: 1		Analysis Time..: 15:51		
Antimony	ND	8.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM104
		Dilution Factor: 1		Analysis Time..: 18:12		
Barium	53.9	27.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM105
		Dilution Factor: 1		Analysis Time..: 18:12		
Selenium	ND	0.69	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PM10Q
		Dilution Factor: 1		Analysis Time..: 15:51		
Beryllium	ND	0.69	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM106
		Dilution Factor: 1		Analysis Time..: 18:12		
Thallium	ND	1.4	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PM10R
		Dilution Factor: 1		Analysis Time..: 15:51		
Cadmium	ND	0.69	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM107
		Dilution Factor: 1		Analysis Time..: 18:12		
Calcium	58600	693	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM108
		Dilution Factor: 1		Analysis Time..: 18:12		
Chromium	22.2	1.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM109
		Dilution Factor: 1		Analysis Time..: 18:12		
Cobalt	ND	6.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10A
		Dilution Factor: 1		Analysis Time..: 18:12		
Iron	14200	13.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10D
		Dilution Factor: 1		Analysis Time..: 18:12		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8420

TOTAL Metals

Lot-Sample #...: H8F170153-003 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	4510	693	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10E
		Dilution Factor: 1		Analysis Time..: 18:12		
Manganese	213	2.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10F
		Dilution Factor: 1		Analysis Time..: 18:12		
Nickel	10.6	5.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10G
		Dilution Factor: 1		Analysis Time..: 18:12		
Potassium	ND	693	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10H
		Dilution Factor: 1		Analysis Time..: 18:12		
Silver	ND	1.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10J
		Dilution Factor: 1		Analysis Time..: 18:12		
Sodium	ND	693	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10K
		Dilution Factor: 1		Analysis Time..: 18:12		
Vanadium	21.1	6.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10L
		Dilution Factor: 1		Analysis Time..: 18:12		
Zinc	36.9	2.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PM10M
		Dilution Factor: 1		Analysis Time..: 18:12		
Prep Batch #...: 8189178						
Copper	18.5	3.5	mg/kg	SW846 6010A	07/08-07/09/98	CJ3PM20C
		Dilution Factor: 1		Analysis Time..: 18:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8440

TOTAL Metals

Lot-Sample #...: H8F170153-004 Matrix.....: SOLID
Date Sampled...: 06/16/98 Date Received..: 06/17/98
% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.042	mg/kg	SW846 7471A	06/30/98	CJ3PQ10T
		Dilution Factor: 1		Analysis Time..: 15:10		
Prep Batch #...: 8181152						
Aluminum	11100	25.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ103
		Dilution Factor: 1		Analysis Time..: 18:17		
Arsenic	14.0	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PQ10N
		Dilution Factor: 1		Analysis Time..: 15:56		
Lead	10.6	0.38	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PQ10P
		Dilution Factor: 1		Analysis Time..: 15:56		
Antimony	7.7	7.7	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ104
		Dilution Factor: 1		Analysis Time..: 18:17		
Barium	78.2	25.5	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ105
		Dilution Factor: 1		Analysis Time..: 18:17		
Selenium	ND	0.64	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PQ10Q
		Dilution Factor: 1		Analysis Time..: 15:56		
Beryllium	0.65	0.64	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ106
		Dilution Factor: 1		Analysis Time..: 18:17		
Thallium	ND	1.3	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PQ10R
		Dilution Factor: 1		Analysis Time..: 15:56		
Cadmium	ND	0.64	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ107
		Dilution Factor: 1		Analysis Time..: 18:17		
Calcium	7860	639	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ108
		Dilution Factor: 1		Analysis Time..: 18:17		
Chromium	20.9	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ109
		Dilution Factor: 1		Analysis Time..: 18:17		
Cobalt	11.9	6.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10A
		Dilution Factor: 1		Analysis Time..: 18:17		
Iron	29000	12.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10D
		Dilution Factor: 1		Analysis Time..: 18:17		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8440

TOTAL Metals

Lot-Sample #...: H8F170153-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	4980	639	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10E
		Dilution Factor: 1		Analysis Time..: 18:17		
Manganese	405	1.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10F
		Dilution Factor: 1		Analysis Time..: 18:17		
Nickel	36.6	5.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10G
		Dilution Factor: 1		Analysis Time..: 18:17		
Potassium	1160	639	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10H
		Dilution Factor: 1		Analysis Time..: 18:17		
Silver	ND	1.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10J
		Dilution Factor: 1		Analysis Time..: 18:17		
Sodium	ND	639	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10K
		Dilution Factor: 1		Analysis Time..: 18:17		
Vanadium	27.5	6.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10L
		Dilution Factor: 1		Analysis Time..: 18:17		
Zinc	72.5	2.6	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PQ10M
		Dilution Factor: 1		Analysis Time..: 18:17		
Prep Batch #...: 8189178						
Copper	24.2	3.2	mg/kg	SW846 6010A	07/08-07/09/98	CJ3PQ20C
		Dilution Factor: 1		Analysis Time..: 19:04		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8270

TOTAL Metals

Lot-Sample #...: H8F170153-005 Matrix.....: SOLID
Date Sampled...: 06/16/98 Date Received..: 06/17/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ3PV10W
		Dilution Factor: 1		Analysis Time..: 15:17		
Prep Batch #...: 8181152						
Aluminum	8840	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV106
		Dilution Factor: 1		Analysis Time..: 18:22		
Arsenic	4.6	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PV10R
		Dilution Factor: 1		Analysis Time..: 16:18		
Lead	10.5	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PV10T
		Dilution Factor: 1		Analysis Time..: 16:18		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV107
		Dilution Factor: 1		Analysis Time..: 18:22		
Barium	62.4	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV108
		Dilution Factor: 1		Analysis Time..: 18:22		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PV10U
		Dilution Factor: 1		Analysis Time..: 16:18		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV109
		Dilution Factor: 1		Analysis Time..: 18:22		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ3PV10V
		Dilution Factor: 1		Analysis Time..: 16:18		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10A
		Dilution Factor: 1		Analysis Time..: 18:22		
Calcium	54500	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10C
		Dilution Factor: 1		Analysis Time..: 18:22		
Chromium	15.3	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10D
		Dilution Factor: 1		Analysis Time..: 18:22		
Cobalt	9.6	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10E
		Dilution Factor: 1		Analysis Time..: 18:22		
Iron	17000	12.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10G
		Dilution Factor: 1		Analysis Time..: 18:22		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8270

TOTAL Metals

Lot-Sample #...: H8F170153-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	23400	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10H
		Dilution Factor: 1		Analysis Time..: 18:22		
Manganese	527	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10J
		Dilution Factor: 1		Analysis Time..: 18:22		
Nickel	23.2	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10K
		Dilution Factor: 1		Analysis Time..: 18:22		
Potassium	1740	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10L
		Dilution Factor: 1		Analysis Time..: 18:22		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10M
		Dilution Factor: 1		Analysis Time..: 18:22		
Sodium	ND	611	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10N
		Dilution Factor: 1		Analysis Time..: 18:22		
Vanadium	27.1	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10P
		Dilution Factor: 1		Analysis Time..: 18:22		
Zinc	53.6	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3PV10Q
		Dilution Factor: 1		Analysis Time..: 18:22		
Prep Batch #...: 8189178						
Copper	19.3	3.1	mg/kg	SW846 6010A	07/08-07/09/98	CJ3PV20F
		Dilution Factor: 1		Analysis Time..: 19:09		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8430

TOTAL Metals

Lot-Sample #...: H8F170153-006 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.039	mg/kg	SW846 7471A	06/30/98	CJ3Q012M
		Dilution Factor: 1		Analysis Time..: 15:19		
Prep Batch #...: 8181152						
Aluminum	**6470**	**23.9**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ3Q010F**
		Dilution Factor: 1		Analysis Time..: 18:27		
Arsenic	**2.2**	**1.2**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ3Q0128**
		Dilution Factor: 1		Analysis Time..: 16:24		
Lead	**5.8**	**0.36**	**mg/kg**	**SW846 6010A**	**06/30-07/07/98**	**CJ3Q012C**
		Dilution Factor: 1		Analysis Time..: 16:24		
Antimony	ND	7.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q010J
		Dilution Factor: 1		Analysis Time..: 18:27		
Barium	**41.3**	**23.9**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ3Q010M**
		Dilution Factor: 1		Analysis Time..: 18:27		
Selenium	ND	0.60	mg/kg	SW846 6010A	06/30-07/07/98	CJ3Q012F
		Dilution Factor: 1		Analysis Time..: 16:24		
Beryllium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q010Q
		Dilution Factor: 1		Analysis Time..: 18:27		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ3Q012J
		Dilution Factor: 1		Analysis Time..: 16:24		
Cadmium	ND	0.60	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q010U
		Dilution Factor: 1		Analysis Time..: 18:27		
Calcium	**1220**	**598**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ3Q010X**
		Dilution Factor: 1		Analysis Time..: 18:27		
Chromium	**8.2**	**1.2**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ3Q0112**
		Dilution Factor: 1		Analysis Time..: 18:27		
Cobalt	ND	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q0115
		Dilution Factor: 1		Analysis Time..: 18:27		
Iron	**8490**	**12.0**	**mg/kg**	**SW846 6010A**	**06/30-07/06/98**	**CJ3Q011C**
		Dilution Factor: 1		Analysis Time..: 18:27		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8430

TOTAL Metals

Lot-Sample #...: H8F170153-006 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	2010	598	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q011F
		Dilution Factor: 1		Analysis Time..: 18:27		
Manganese	83.4	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q011J
		Dilution Factor: 1		Analysis Time..: 18:27		
Nickel	7.4	4.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q011M
		Dilution Factor: 1		Analysis Time..: 18:27		
Potassium	ND	598	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q011Q
		Dilution Factor: 1		Analysis Time..: 18:27		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q011U
		Dilution Factor: 1		Analysis Time..: 18:27		
Sodium	ND	598	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q011X
		Dilution Factor: 1		Analysis Time..: 18:27		
Vanadium	14.2	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q0122
		Dilution Factor: 1		Analysis Time..: 18:27		
Zinc	30.6	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q0125
		Dilution Factor: 1		Analysis Time..: 18:27		
Prep Batch #...: 8189178						
Copper	4.9	3.0	mg/kg	SW846 6010A	07/08-07/09/98	CJ3Q0218
		Dilution Factor: 1		Analysis Time..: 19:13		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8431

TOTAL Metals

Lot-Sample #...: H8F170153-007 Matrix.....: SOLID
Date Sampled...: 06/16/98 Date Received..: 06/17/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8180256						
Mercury	ND	0.040	mg/kg	SW846 7471A	06/30/98	CJ3Q610W
		Dilution Factor: 1		Analysis Time..: 15:27		
Prep Batch #...: 8181152						
Aluminum	5370	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q6106
		Dilution Factor: 1		Analysis Time..: 18:56		
Arsenic	2.4	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ3Q610R
		Dilution Factor: 1		Analysis Time..: 16:46		
Lead	4.1	0.37	mg/kg	SW846 6010A	06/30-07/07/98	CJ3Q610T
		Dilution Factor: 1		Analysis Time..: 16:46		
Antimony	ND	7.3	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q6107
		Dilution Factor: 1		Analysis Time..: 18:56		
Barium	37.2	24.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q6108
		Dilution Factor: 1		Analysis Time..: 18:56		
Selenium	ND	0.61	mg/kg	SW846 6010A	06/30-07/07/98	CJ3Q610U
		Dilution Factor: 1		Analysis Time..: 16:46		
Beryllium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q6109
		Dilution Factor: 1		Analysis Time..: 18:56		
Thallium	ND	1.2	mg/kg	SW846 6010A	06/30-07/07/98	CJ3Q610V
		Dilution Factor: 1		Analysis Time..: 16:46		
Cadmium	ND	0.61	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610A
		Dilution Factor: 1		Analysis Time..: 18:56		
Calcium	1100	609	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610C
		Dilution Factor: 1		Analysis Time..: 18:56		
Chromium	6.7	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610D
		Dilution Factor: 1		Analysis Time..: 18:56		
Cobalt	ND	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610E
		Dilution Factor: 1		Analysis Time..: 18:56		
Iron	7110	12.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610G
		Dilution Factor: 1		Analysis Time..: 18:56		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8431

TOTAL Metals

Lot-Sample #...: H8F170153-007 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	1660	609	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610H
		Dilution Factor: 1		Analysis Time..: 18:56		
Manganese	91.2	1.8	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610J
		Dilution Factor: 1		Analysis Time..: 18:56		
Nickel	6.8	4.9	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610K
		Dilution Factor: 1		Analysis Time..: 18:56		
Potassium	ND	609	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610L
		Dilution Factor: 1		Analysis Time..: 18:56		
Silver	ND	1.2	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610M
		Dilution Factor: 1		Analysis Time..: 18:56		
Sodium	ND	609	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610N
		Dilution Factor: 1		Analysis Time..: 18:56		
Vanadium	10.9	6.1	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610P
		Dilution Factor: 1		Analysis Time..: 18:56		
Zinc	27.3	2.4	mg/kg	SW846 6010A	06/30-07/06/98	CJ3Q610Q
		Dilution Factor: 1		Analysis Time..: 18:56		
Prep Batch #...: 8189178						
Copper	7.1	3.0	mg/kg	SW846 6010A	07/08-07/09/98	CJ3Q620F
		Dilution Factor: 1		Analysis Time..: 19:38		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8F290000-256 **Prep Batch #...:** 8180256						
Mercury	ND	0.033	mg/kg	SW846 7471A	06/30/98	CJEQ4101
		Dilution Factor: 1				
		Analysis Time..: 14:29				
MB Lot-Sample #: H8F300000-152 **Prep Batch #...:** 8181152						
Aluminum	ND	20.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810H
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Arsenic	ND	1.0	mg/kg	SW846 6010A	06/30-07/07/98	CJF4810D
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Antimony	ND	6.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810J
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Lead	ND	0.30	mg/kg	SW846 6010A	06/30-07/07/98	CJF4810E
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Barium	ND	20.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810K
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Selenium	ND	0.50	mg/kg	SW846 6010A	06/30-07/07/98	CJF4810F
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Beryllium	ND	0.50	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810L
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Thallium	ND	1.0	mg/kg	SW846 6010A	06/30-07/07/98	CJF4810G
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Cadmium	ND	0.50	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810M
		Dilution Factor: 1				
		Analysis Time..: 11:49				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810N
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Chromium	ND	1.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810P
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Cobalt	ND	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF48101
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Iron	ND	10.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF48103
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Magnesium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF48104
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Manganese	ND	1.5	mg/kg	SW846 6010A	06/30-07/06/98	CJF48105
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Nickel	ND	4.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF48106
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Potassium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF48107
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Silver	ND	1.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF48108
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Sodium	ND	500	mg/kg	SW846 6010A	06/30-07/06/98	CJF48109
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Vanadium	ND	5.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810A
		Dilution Factor: 1				
		Analysis Time..: 11:49				
Zinc	ND	2.0	mg/kg	SW846 6010A	06/30-07/06/98	CJF4810C
		Dilution Factor: 1				
		Analysis Time..: 11:49				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G080000-178 **Prep Batch #...:** 8189178						
Copper	ND	2.5	mg/kg	SW846 6010A	07/08-07/09/98	CJL27101
		Dilution Factor: 1				
		Analysis Time..: 17:39				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F170153-006 **Prep Batch #...:** 8180256							
Mercury	102	(55 - 130)			SW846 7471A	06/30/98	CJ3Q012N
	106	(55 - 130)	3.4	(0-20)	SW846 7471A	06/30/98	CJ3Q012P
		Dilution Factor: 1					
		Analysis Time..: 15:22					
MS Lot-Sample #: H8F170153-006 **Prep Batch #...:** 8181152							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010H
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Arsenic	82	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ3Q0129
	78 N	(80 - 120)	5.5	(0-20)	SW846 6010A	06/30-07/07/98	CJ3Q012A
		Dilution Factor: 1					
		Analysis Time..: 16:30					
Antimony	87	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010K
	68 N,*	(80 - 120)	25	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010L
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Lead	88	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ3Q012D
	87	(80 - 120)	0.97	(0-20)	SW846 6010A	06/30-07/07/98	CJ3Q012E
		Dilution Factor: 1					
		Analysis Time..: 16:30					
Barium	96	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010N
	94	(80 - 120)	1.7	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010P
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Selenium	85	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ3Q012G
	83	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/07/98	CJ3Q012H
		Dilution Factor: 1					
		Analysis Time..: 16:30					
Beryllium	107	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010R
	104	(80 - 120)	3.2	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010T
		Dilution Factor: 1					
		Analysis Time..: 18:32					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	84	(80 - 120)			SW846 6010A	06/30-07/07/98	CJ3Q012K
	82	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/07/98	CJ3Q012L
		Dilution Factor: 1					
		Analysis Time..: 16:30					
Cadmium	104	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q010V
	101	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q010W
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Calcium	106	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0110
	103	(80 - 120)	2.4	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0111
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Chromium	109	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0113
	102	(80 - 120)	4.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0114
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Cobalt	100	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0116
	98	(80 - 120)	1.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0117
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Iron	NC,MSB	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011D
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011E
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Magnesium	105	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011G
	102	(80 - 120)	2.6	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011H
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Manganese	96	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011K
	85	(80 - 120)	4.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011L
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Nickel	100	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011N
	97	(80 - 120)	2.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011P
		Dilution Factor: 1					
		Analysis Time..: 18:32					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID
Date Sampled...: 06/16/98 **Date Received..:** 06/17/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	106	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011R
	101	(80 - 120)	4.4	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011T
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Silver	86	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q011V
	83	(80 - 120)	2.8	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q011W
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Sodium	101	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0120
	97	(80 - 120)	3.7	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0121
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Vanadium	104	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0123
	99	(80 - 120)	4.3	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0124
		Dilution Factor: 1					
		Analysis Time..: 18:32					
Zinc	108	(80 - 120)			SW846 6010A	06/30-07/06/98	CJ3Q0126
	106	(80 - 120)	0.68	(0-20)	SW846 6010A	06/30-07/06/98	CJ3Q0127
		Dilution Factor: 1					
		Analysis Time..: 18:32					

MS Lot-Sample #: H8F170153-006 **Prep Batch #...:** 8189178

Copper	90	(80 - 120)			SW846 6010A	07/08-07/09/98	CJ3Q012Q
	92	(80 - 120)	0.96	(0-20)	SW846 6010A	07/08-07/09/98	CJ3Q012R
		Dilution Factor: 1					
		Analysis Time..: 19:18					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8F290000-256 **Prep Batch #...:** 8180256					
Mercury	103	(80 - 120)	SW846 7471A Dilution Factor: 1 Analysis Time..: 14:31	06/30/98	CJEQ4102
LCS Lot-Sample#: H8F300000-152 **Prep Batch #...:** 8181152					
Cobalt	97	(87 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4810Q
Iron	96	(87 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4810T
Magnesium	98	(86 - 119)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4810U
Manganese	94	(89 - 112)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4810V
Nickel	95	(88 - 115)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4810W
Potassium	98	(83 - 113)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4810X
Barium	93	(88 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4811A
Beryllium	99	(80 - 118)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4811C
Cadmium	107	(80 - 113)	SW846 6010A Dilution Factor: 1 Analysis Time..: 11:54	06/30-07/06/98	CJF4811D

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	100	(84 - 117)	SW846 6010A	06/30-07/06/98	CJF4811E
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Chromium	100	(87 - 118)	SW846 6010A	06/30-07/06/98	CJF4811F
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Silver	83	(80 - 117)	SW846 6010A	06/30-07/06/98	CJF48110
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Sodium	98	(85 - 115)	SW846 6010A	06/30-07/06/98	CJF48111
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Vanadium	95	(89 - 113)	SW846 6010A	06/30-07/06/98	CJF48112
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Zinc	96	(89 - 118)	SW846 6010A	06/30-07/06/98	CJF48113
		Dilution Factor: 1			
		Analysis Time..: 11:54			
Arsenic	90	(83 - 110)	SW846 6010A	06/30-07/07/98	CJF48114
		Dilution Factor: 1			
		Analysis Time..: 13:43			
Lead	92	(84 - 110)	SW846 6010A	06/30-07/07/98	CJF48115
		Dilution Factor: 1			
		Analysis Time..: 13:43			
Selenium	88	(80 - 110)	SW846 6010A	06/30-07/07/98	CJF48116
		Dilution Factor: 1			
		Analysis Time..: 13:43			
Thallium	87	(83 - 110)	SW846 6010A	06/30-07/07/98	CJF48117
		Dilution Factor: 1			
		Analysis Time..: 13:43			
Aluminum	96	(89 - 119)	SW846 6010A	06/30-07/06/98	CJF48118
		Dilution Factor: 1			
		Analysis Time..: 11:54			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB032 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	110	(86 - 119)	SW846 6010A	06/30-07/06/98	CJF48119
		Dilution Factor: 1			
		Analysis Time..: 11:54			

LCS Lot-Sample#: H8G080000-178 **Prep Batch #...:** 8189178

Copper	96	(86 - 111)	SW846 6010A	07/08-07/09/98	CJL27102
		Dilution Factor: 1			
		Analysis Time..: 17:44			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB032

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	TOTAL	EXP
				8260A	8270B	8081	6010A	8330
1	6/16/98	H8F160182	7250				X	X
2			7260	X	X	X	X	X
3			7370				X	X
4			7600	X	X	X	X	X
5			7610				X	X
6			7620				X	X
7			7960				X	X
8			7970				X	X
9			7980	X	X	X	X	X
10	6/17/98	H8F170153	8260				X	X
11			8270	X	X	X	X	X
12			8280				X	X
13			8420				X	X
14			8430	QC	QC	QC	QC	QC
15			8431	X	X	X	X	X
16			8440				X	X
17								
18								
19								
20								
21								

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: SOIL
ANALYTICAL DUE: 7-9-98
REPORT DUE: 7-13-98
CLOSED?_YES___

7/14/98 8:24 AM

Quote #23581

H8F160182

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QESK

Project Number: 773701

Samples Shipment Date: 15-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850064

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/15/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) [signature] Date: 6/16/98 Time: 0940

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS -- 8000 AND 8020 TOTAL ONLY

Rec'd @ 4°C (except NOTED on COC)
w/custody Seals
Intact BYB 6/16/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7240	PBOW-98-SO-PRRP-DP02-7240-(0001	14-JUN-98	07:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7240	PBOW-98-SO-PRRP-DP02-7240-(0001	14-JUN-98	07:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7250	PBOW-98-SO-PRRP-DP02-7250-(0405	14-JUN-98	08:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7250	PBOW-98-SO-PRRP-DP02-7250-(0405	14-JUN-98	08:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7260	PBOW-98-SO-PRRP-DP02-7260-(0910	14-JUN-98	08:10	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7260	PBOW-98-SO-PRRP-DP02-7260-(0910	14-JUN-98	08:10	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081; TCL Semivolatiles by SW-846 8270B in soil	N		
7260	PBOW-98-SO-PRRP-DP02-7260-(0910	14-JUN-98	08:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7260	PBOW-98-SO-PRRP-DP02-7260-(0910	14-JUN-98	08:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

H8F160182

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7270	PBOW-98-GW-PRRP-DP02-7270	14-JUN-98	15:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7360	PBOW-98-SO-PRRP-DP05-7360-(0001	14-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7360	PBOW-98-SO-PRRP-DP05-7360-(0001	14-JUN-98	09:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7370	PBOW-98-SO-PRRP-DP05-7370-(0405	14-JUN-98	09:50	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7370	PBOW-98-SO-PRRP-DP05-7370-(0405	14-JUN-98	09:50	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7370	PBOW-98-SO-PRRP-DP05-7370-(0405	14-JUN-98	09:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7370	PBOW-98-SO-PRRP-DP05-7370-(0405	14-JUN-98	09:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7380	PBOW-98-SO-PRRP-DP05-7380-(0910	14-JUN-98	10:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7380	PBOW-98-SO-PRRP-DP05-7380-(0910	14-JUN-98	10:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7390	PBOW-98-GW-PRRP-DP05-7390	14-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
7520	PBOW-98-SO-PRRP-DP09-7520-(0001	14-JUN-98	13:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7520	PBOW-98-SO-PRRP-DP09-7520-(0001	14-JUN-98	13:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530-MS	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530-MS	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530-MS	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530-MS	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530-MSD	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530-MSD	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530-MSD	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		

H8F160182

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7530-MSD	PBOW-98-SO-PRRP-DP09-7530-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7531	PBOW-98-SO-PRRP-DP09-7531-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7531	PBOW-98-SO-PRRP-DP09-7531-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7531	PBOW-98-SO-PRRP-DP09-7531-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7531	PBOW-98-SO-PRRP-DP09-7531-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7532	PBOW-98-SO-PRRP-DP09-7532-(0405	14-JUN-98	14:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7532	PBOW-98-SO-PRRP-DP09-7532-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7532	PBOW-98-SO-PRRP-DP09-7532-(0405	14-JUN-98	14:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7532	PBOW-98-SO-PRRP-DP09-7532-(0405	14-JUN-98	14:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7540	PBOW-98-SO-PRRP-DP09-7540-(0910	14-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7540	PBOW-98-SO-PRRP-DP09-7540-(0910	14-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7550	PBOW-98-GW-PRRP-DP09-7550	14-JUN-98	16:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7600	PBOW-98-SO-PRRP-DP11-7600-(0001	13-JUN-98	15:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7600	PBOW-98-SO-PRRP-DP11-7600-(0001	13-JUN-98	15:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7600	PBOW-98-SO-PRRP-DP11-7600-(0001	13-JUN-98	15:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7600	PBOW-98-SO-PRRP-DP11-7600-(0001	13-JUN-98	15:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7610	PBOW-98-SO-PRRP-DP11-7610-(0405	13-JUN-98	15:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7610	PBOW-98-SO-PRRP-DP11-7610-(0405	13-JUN-98	15:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7620	PBOW-98-SO-PRRP-DP11-7620-(0910	13-JUN-98	15:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7620	PBOW-98-SO-PRRP-DP11-7620-(0910	13-JUN-98	15:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7630	PBOW-98-GW-PRRP-DP11-7630	14-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7960	PBOW-98-SO-PRRP-DP20-7960-(0001	13-JUN-98	14:25	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7960	PBOW-98-SO-PRRP-DP20-7960-(0001	13-JUN-98	14:25	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7970	PBOW-98-SO-PRRP-DP20-7970-(0405	13-JUN-98	14:35	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F160182

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-061598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7970	PBOW-98-SO-PRRP-DP20-7970-(0405	13-JUN-98	14:35	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7980	PBOW-98-SO-PRRP-DP20-7980-(0910	13-JUN-98	14:45	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7980	PBOW-98-SO-PRRP-DP20-7980-(0910	13-JUN-98	14:45	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7980	PBOW-98-SO-PRRP-DP20-7980-(0910	13-JUN-98	14:45	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7980	PBOW-98-SO-PRRP-DP20-7980-(0910	13-JUN-98	14:45	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7990	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7990MS	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
7990MSD	PBOW-98-GW-PRRP-DP20-7990	14-JUN-98	16:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8000	PBOW-98-FB-PRRP-8000	15-JUN-98	09:15	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N		
8000	FB	15-JUN-98	09:15	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8000	FB	15-JUN-98	09:15	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8000	FB	15-JUN-98	09:15	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		
8000	FB	15-JUN-98	09:15	1 L HDPE	1 HNO3, pH<2	TAL Metals by SW-846 6010A/7471 in soil	N		
8020	PBOW-98-ER-PRRP-8020	15-JUN-98	09:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		
8020	ER	15-JUN-98	09:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8020	ER	15-JUN-98	09:00	1 L HDPE	1 HNO3, pH<2	TAL Metals by SW-846 6010A/7471 in soil	N		
8020	ER	15-JUN-98	09:00	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N		
8020	ER	15-JUN-98	09:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
9032	PBOW-98-TB-PRRP-9032	15-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp **PROJECT:** Plumbrook **Lot No.:** H8F160182

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?		✓	
c. Were samples received with correct preservative (excluding Encore)?			✓
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/16/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓

2. If custody seals were missing/not intact, was client notified? — — ✓

PROJECT MANAGER : [signature] DATE: 6/16/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
			See additional page →

☒ Client informed on 6/16/98 by JM. Person contacted: Maureen McCaylor
☒ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/17/98

QA026R5.doc, 03/03/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 3 of 4 Lot # H8F160182

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
7990 MSD	8081, 8330	2A	7°C ~~*Canceled~~ use other container
7630	8081, 8270B, 8330	↓	~~*Canceled~~
7240	8330, METALS		10°C ~~*Canceled~~
✓ 7250	8330		→ use additional container, *
✓ 7260	8081, 8270B, 8330		
7360	8330, METALS		~~*Canceled~~
✓ 7370	8260A, 8081, 8270B, 8330		
7380	8330, METALS		~~*Canceled~~
7520	8330, METALS		~~*Canceled~~
7530	METALS, 8330, 8260, 8081, 8270		~~*Canceled~~
7531	↓		~~*Canceled~~
7532	↓		~~*Canceled~~
7540	8330, METALS		~~*Canceled~~
✓ 7600	8081, 8270B, 8330		
✓ 7610	8330		
✓ 7620			
✓ 7960			
✓ 7970			
✓ 7980	↓	↓	↓
7532 was to be sent to		ACE lab. (Canceled per Duane Nielsen/I.T.)	

* use additional container to process 8330's for ID's; 7250, 7260, 7370, 7540, 7600, 7610, 7620, 7960, 7970, 7980.
? other tests if possible (ONLY)
<Cancel all other tests sent @ 10°C if insufficient volume in temp. spec.>

QA026R5.doc, 03/03/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST
LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = 7°C, 10°C
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PBOW Lot No.: KBF160182

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?	✓		
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/17/98

QA016R7.doc, 01/29/98

Quote # 23581

H8F170153

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-061698QESK

Project Number: 773701

Samples Shipment Date: 16-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850086

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/16/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [ ] Archive (mos.)

1. Received By (Signature/Affiliation) K Woolcock QES Date: 6-17-98 Time: 0845

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd w/ custody seals INTACT @ 3°C [signature] 6-17-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8260	PBOW-98-SO-WARP-DP05-8260-(000	16-JUN-98	11:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8260	PBOW-98-SO-WARP-DP05-8260-(000	16-JUN-98	11:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8270	PBOW-98-SO-WARP-DP05-8270-(040	16-JUN-98	11:10	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8270	PBOW-98-SO-WARP-DP05-8270-(040	16-JUN-98	11:10	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8270	PBOW-98-SO-WARP-DP05-8270-(040	16-JUN-98	11:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8270	PBOW-98-SO-WARP-DP05-8270-(040	16-JUN-98	11:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8280	PBOW-98-SO-WARP-DP05-8280-(091	16-JUN-98	11:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8280	PBOW-98-SO-WARP-DP05-8280-(091	16-JUN-98	11:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F170153

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-061698QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8410	PBOW-98-GW-WARP-DP08-8410	16-JUN-98	07:30	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8410	PBOW-98-GW-WARP-DP08-8410	16-JUN-98	07:30	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8420	PBOW-98-SO-WARP-DP09-8420-(000	16-JUN-98	08:15	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8420	PBOW-98-SO-WARP-DP09-8420-(000	16-JUN-98	08:15	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8430	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8430	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8430	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8430	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8430-MS	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8430-MS	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8430-MS	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8430-MS	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8430-MSD	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8430-MSD	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8430-MSD	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8430-MSD	PBOW-98-SO-WARP-DP09-8430-(040	16-JUN-98	08:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8431	PBOW-98-SO-WARP-DP09-8431-(040	16-JUN-98	08:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8431	PBOW-98-SO-WARP-DP09-8431-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8431	PBOW-98-SO-WARP-DP09-8431-(040	16-JUN-98	08:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8431	PBOW-98-SO-WARP-DP09-8431-(040	16-JUN-98	08:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8440	PBOW-98-SO-WARP-DP09-8440-(091	16-JUN-98	08:45	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8440	PBOW-98-SO-WARP-DP09-8440-(091	16-JUN-98	08:45	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8450	PBOW-98-GW-WARP-DP09-8450	16-JUN-98	10:00	1 L Amb. Glass	2 None except cool to 4 C	PCBs by SW8081	N		
9034		16-JUN-98	10:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F170153

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?			✓
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/17/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ? SOILS			✓
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/17/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T.KNX PROJECT: PBOW Lot No.: H8F170153

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?	✓		
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/18/98

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

Quanterra
Environmental Services

ANALYTICAL REPORT

PROJECT NO. 773701

PBOW-Red Water Ponds
SDG #: PB033

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

July 28, 1998

Quanterra Environmental Services

SDG SAMPLE SUMMARY REPORT

PB033

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F230179-004	D	06/23/98	LAB MS/MSD
H8F230179-004	S	06/23/98	LAB MS/MSD
H8F240168-001		06/24/98	7240R
H8F240168-002		06/24/98	8100
H8F240168-003		06/24/98	8120
H8F240168-004		06/24/98	8150
H8F240168-005		06/24/98	8160
H8F240168-006		06/24/98	8310
H8F240168-007		06/24/98	8320
H8F240168-008		06/24/98	8110
H8F240168-009		06/24/98	8140
H8F240168-009	D	06/24/98	8140
H8F240168-009	S	06/24/98	8140
H8F240168-010		06/24/98	8300
H8F250218-001	D	06/25/98	LAB MS/MSD
H8F250218-001	S	06/25/98	LAB MS/MSD
H8F260208-010	D	06/26/98	LAB MS/MSD
H8F260208-010	S	06/26/98	LAB MS/MSD
H8F290110-001		06/27/98	8340
H8F290110-002		06/27/98	8350
H8F290110-003		06/27/98	8360
H8F290110-004		06/27/98	8460
H8F290110-005		06/27/98	8470
H8F290110-006		06/27/98	8500
H8F290110-007		06/27/98	8510
H8F290110-008		06/27/98	8520

Quanterra
Environmental Services

SAMPLE SUMMARY

PB033 : H8F240168

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJ9X1	001	7240R	06/22/98	14:30
CJ9X8	002	8100	06/23/98	10:50
CJ9X9	003	8120	06/23/98	11:00
CJ9XE	004	8150	06/23/98	11:50
CJ9XL	005	8160	06/23/98	12:00
CJ9XN	006	8310	06/23/98	09:20
CJ9XR	007	8320	06/23/98	09:25
CJ9XT	008	8110	06/23/98	10:55
CJA03	009	8140	06/23/98	11:40
CJA05	010	8300	06/23/98	09:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

Quanterra
Environmental Services

SAMPLE SUMMARY

PB033 : H8F290110

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJEJH	001	8340	06/25/98	15:45
CJEJQ	002	8350	06/25/98	15:50
CJEK0	003	8360	06/25/98	15:55
CJEK7	004	8460	06/26/98	10:30
CJEKE	005	8470	06/26/98	10:40
CJEKK	006	8500	06/25/98	16:20
CJEKT	007	8510	06/25/98	16:25
CJEKW	008	8520	06/25/98	16:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
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- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

PB033

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides and PCBs	SW846 8081
Percent Moisture	MCAWW 160.3 MOD
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Volatiles

Internal standard recoveries for samples 8140, 8350, 8460 and 8500 were outside control limits. However, re-analysis of the sample resulted in similar results, indicating that a sample matrix effect is responsible for the internal standard criteria not being met. Both sets of data are reported.

The result for methylene chloride for method blank CJAA8101 was greater than the reporting limit, but less than 5 times the reporting limit. Methylene chloride is considered a common laboratory contaminant.

Explosives

One of the laboratory control sample results were outside control limits for 2,4,6-Trinitrotoluene. However, matrix spike/matrix spike duplicate recoveries and all sample surrogate recoveries were acceptable, indicating that the problem was confined to the laboratory control sample. Thus, the validity of the sample results is not adversely affected.

Metals

The matrix spike/matrix spike duplicate recoveries and/or RPDs for sample 8140 were outside control limits for some analytes. However, the laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

The serial dilution of sample 8140 was outside control limits due to physical or chemical matrix interferences.

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Quanterra Incorporated, Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New Mexico ED, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Quanterra
Environmental Services

PROJECT NARRATIVE

COMMENTS:

Metals

Samples 8120, 8160, and 8320 were analyzed at appropriate dilutions due the high calcium concentration.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8110

GC/MS Volatiles

Lot-Sample #...: H8F240168-008 **Work Order #...:** CJ9XT102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176166
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	13	ug/kg
Bromomethane	ND	13	ug/kg
Vinyl chloride	ND	13	ug/kg
Chloroethane	ND	13	ug/kg
Methylene chloride	**3.2 J,B**	**6.3**	**ug/kg**
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.3	ug/kg
1,1-Dichloroethene	ND	6.3	ug/kg
1,1-Dichloroethane	ND	6.3	ug/kg
1,2-Dichloroethene (total)	ND	6.3	ug/kg
Chloroform	ND	6.3	ug/kg
1,2-Dichloroethane	ND	6.3	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.3	ug/kg
Carbon tetrachloride	ND	6.3	ug/kg
Bromodichloromethane	ND	6.3	ug/kg
1,2-Dichloropropane	ND	6.3	ug/kg
cis-1,3-Dichloropropene	ND	6.3	ug/kg
Trichloroethene	ND	6.3	ug/kg
Dibromochloromethane	ND	6.3	ug/kg
1,1,2-Trichloroethane	ND	6.3	ug/kg
Benzene	ND	6.3	ug/kg
trans-1,3-Dichloropropene	ND	6.3	ug/kg
Bromoform	ND	6.3	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.3	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.3	ug/kg
Toluene	**2.2 J**	**6.3**	**ug/kg**
Chlorobenzene	ND	6.3	ug/kg
Ethylbenzene	ND	6.3	ug/kg
Styrene	ND	6.3	ug/kg
Xylenes (total)	ND	6.3	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(64 - 135)
Toluene-d8	96	(77 - 124)
4-Bromofluorobenzene	105	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8110

GC/MS Volatiles

Lot-Sample #...: H8F240168-008 **Work Order #...:** CJ9XT102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

GC/MS Volatiles

Lot-Sample #...: H8F240168-009 **Work Order #...:** CJA03102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176166
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**4.8 J,B**	**6.0**	**ug/kg**
Acetone	**8.7 J**	**24**	**ug/kg**
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	**2.1 J**	**6.0**	**ug/kg**
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(64 - 135)
Toluene-d8	116	(77 - 124)
4-Bromofluorobenzene	112	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

GC/MS Volatiles

Lot-Sample #...: H8F240168-009 **Work Order #...:** CJA03102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contaminnation. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

GC/MS Volatiles

Lot-Sample #...: H8F240168-009 **Work Order #...:** CJA03202 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176166
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**2.3 J,B**	**6.0**	**ug/kg**
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	**1.8 J**	**6.0**	**ug/kg**
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(64 - 135)
Toluene-d8	114	(77 - 124)
4-Bromofluorobenzene	114	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

GC/MS Volatiles

Lot-Sample #...: H8F240168-009 **Work Order #...:** CJA03202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8300

GC/MS Volatiles

Lot-Sample #...: H8F240168-010 **Work Order #...:** CJA0520U **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176166
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	**1.8 J,B**	**5.6**	**ug/kg**
Acetone	ND	22	ug/kg
Carbon disulfide	ND	5.6	ug/kg
1,1-Dichloroethene	ND	5.6	ug/kg
1,1-Dichloroethane	ND	5.6	ug/kg
1,2-Dichloroethene (total)	ND	5.6	ug/kg
Chloroform	ND	5.6	ug/kg
1,2-Dichloroethane	ND	5.6	ug/kg
2-Butanone	ND	22	ug/kg
1,1,1-Trichloroethane	ND	5.6	ug/kg
Carbon tetrachloride	ND	5.6	ug/kg
Bromodichloromethane	ND	5.6	ug/kg
1,2-Dichloropropane	ND	5.6	ug/kg
cis-1,3-Dichloropropene	ND	5.6	ug/kg
Trichloroethene	ND	5.6	ug/kg
Dibromochloromethane	ND	5.6	ug/kg
1,1,2-Trichloroethane	ND	5.6	ug/kg
Benzene	ND	5.6	ug/kg
trans-1,3-Dichloropropene	ND	5.6	ug/kg
Bromoform	ND	5.6	ug/kg
4-Methyl-2-pentanone	ND	22	ug/kg
2-Hexanone	ND	22	ug/kg
Tetrachloroethene	ND	5.6	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg
Toluene	**2.3 J**	**5.6**	**ug/kg**
Chlorobenzene	ND	5.6	ug/kg
Ethylbenzene	ND	5.6	ug/kg
Styrene	ND	5.6	ug/kg
Xylenes (total)	ND	5.6	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(64 - 135)
Toluene-d8	107	(77 - 124)
4-Bromofluorobenzene	101	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8300

GC/MS Volatiles

Lot-Sample #...: H8F240168-010 **Work Order #...:** CJA0520U **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

GC/MS Volatiles

Lot-Sample #...: H8F290110-002 **Work Order #...:** CJEJQ102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**3.2 J,B**	**5.8**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(64 - 135)
Toluene-d8	111	(77 - 124)
4-Bromofluorobenzene	117	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

GC/MS Volatiles

Lot-Sample #...: H8F290110-002 Work Order #...: CJEJQ102 Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

GC/MS Volatiles

Lot-Sample #...: H8F290110-002 **Work Order #...:** CJEJQ302 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/06/98 **Analysis Date..:** 07/06/98
Prep Batch #...: 8187157
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**4.4 J,B**	**5.8**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	**4.6 J**	**5.8**	**ug/kg**
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	119	(64 - 135)
Toluene-d8	115	(77 - 124)
4-Bromofluorobenzene	100	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

GC/MS Volatiles

Lot-Sample #...: H8F290110-002 **Work Order #...:** CJEJQ302 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

GC/MS Volatiles

Lot-Sample #...: H8F290110-004 **Work Order #...:** CJEK7102 **Matrix.....:** SOLID
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**2.7 J,B**	**5.8**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	113	(64 - 135)
Toluene-d8	112	(77 - 124)
4-Bromofluorobenzene	119	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

GC/MS Volatiles

Lot-Sample #...: H8F290110-004 **Work Order #...:** CJEK7102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

GC/MS Volatiles

Lot-Sample #...: H8F290110-004 **Work Order #...:** CJEK7302 **Matrix.....:** SOLID
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/06/98 **Analysis Date..:** 07/06/98
Prep Batch #...: 8187157
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**4.0 J,B**	**5.8**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(64 - 135)
Toluene-d8	108	(77 - 124)
4-Bromofluorobenzene	88	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

GC/MS Volatiles

Lot-Sample #...: H8F290110-004 **Work Order #...:** CJEK7302 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

GC/MS Volatiles

Lot-Sample #...: H8F290110-006 **Work Order #...:** CJEKK102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**4.5 J,B**	**6.0**	**ug/kg**
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	**1.4 J**	**6.0**	**ug/kg**
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	118	(64 - 135)
Toluene-d8	104	(77 - 124)
4-Bromofluorobenzene	102	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

GC/MS Volatiles

Lot-Sample #...: H8F290110-006 **Work Order #...:** CJEKK102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

GC/MS Volatiles

Lot-Sample #...: H8F290110-006 **Work Order #...:** CJEKK302 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/06/98 **Analysis Date..:** 07/06/98
Prep Batch #...: 8187157
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**3.7 J,B**	**6.0**	**ug/kg**
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	**3.2 J**	**6.0**	**ug/kg**
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(64 - 135)
Toluene-d8	105	(77 - 124)
4-Bromofluorobenzene	87	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

GC/MS Volatiles

Lot-Sample #...: H8F290110-006 **Work Order #...:** CJEKK302 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJAA8101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F250000-166

Prep Date.....: 06/25/98
Analysis Date..: 06/25/98 **Prep Batch #...:** 8176166
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	**6.5**	**5.0**	**ug/kg**	**SW846 8260A**
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(64 - 135)
Toluene-d8	96	(77 - 124)
4-Bromofluorobenzene	101	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJ8RE110-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F230179-004 CJ8RE111-MSD
Date Sampled...: 06/18/98 **Date Received..:** 06/23/98
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176166
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**102**	**(64 - 146)**			**SW846 8260A**
	99	**(64 - 146)**	**2.8**	**(0-18)**	**SW846 8260A**
Benzene	**104**	**(74 - 122)**			**SW846 8260A**
	102	**(74 - 122)**	**2.6**	**(0-15)**	**SW846 8260A**
Trichloroethene	**94**	**(41 - 151)**			**SW846 8260A**
	97	**(41 - 151)**	**3.0**	**(0-28)**	**SW846 8260A**
Toluene	**107**	**(69 - 132)**			**SW846 8260A**
	109	**(69 - 132)**	**1.4**	**(0-24)**	**SW846 8260A**
Chlorobenzene	**103**	**(67 - 121)**			**SW846 8260A**
	97	**(67 - 121)**	**5.8**	**(0-18)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	91	(64 - 135)
	103	(64 - 135)
Toluene-d8	102	(77 - 124)
	108	(77 - 124)
4-Bromofluorobenzene	105	(70 - 147)
	104	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJAA8102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F250000-166
Prep Date.....: 06/25/98 **Analysis Date..:** 06/25/98
Prep Batch #...: 8176166
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**85**	**(67 - 137)**	**SW846 8260A**
Benzene	**96**	**(78 - 120)**	**SW846 8260A**
Trichloroethene	**93**	**(68 - 126)**	**SW846 8260A**
Toluene	**98**	**(73 - 118)**	**SW846 8260A**
Chlorobenzene	**96**	**(72 - 118)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(64 - 135)
Toluene-d8	101	(77 - 124)
4-Bromofluorobenzene	95	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJG1A101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G010000-130

Prep Date.....: 07/01/98
Analysis Date..: 07/01/98 **Prep Batch #...:** 8182130
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	**1.6 J**	**5.0**	**ug/kg**	**SW846 8260A**
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 135)
Toluene-d8	91	(70 - 130)
4-Bromofluorobenzene	94	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJG1A101 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJG1A102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G010000-130
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**97**	**(67 - 137)**	**SW846 8260A**
Benzene	**105**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**105**	**(68 - 130)**	**SW846 8260A**
Toluene	**103**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**108**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(64 - 135)
Toluene-d8	95	(70 - 130)
4-Bromofluorobenzene	96	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJJPV101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G060000-157

Prep Date.....: 07/06/98
Analysis Date..: 07/06/98 **Prep Batch #...:** 8187157
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	**3.7 J**	**5.0**	**ug/kg**	**SW846 8260A**
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(64 - 135)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	76	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJJPV101 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB033 **Work Order #...:** CJJPV102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G060000-157
Prep Date.....: 07/06/98 **Analysis Date..:** 07/06/98
Prep Batch #...: 8187157
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**92**	**(67 - 137)**	**SW846 8260A**
Benzene	**91**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**104**	**(68 - 130)**	**SW846 8260A**
Toluene	**89**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**94**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	91	(64 - 135)
Toluene-d8	97	(70 - 130)
4-Bromofluorobenzene	76	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8110

GC/MS Semivolatiles

Lot-Sample #...: H8F240168-008 **Work Order #...:** CJ9XT103 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	ND	410	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8110

GC/MS Semivolatiles

Lot-Sample #...: H8F240168-008 **Work Order #...:** CJ9XT103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	410	ug/kg
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(25 - 121)
Phenol-d5	70	(24 - 113)
Nitrobenzene-d5	66	(23 - 120)
2-Fluorobiphenyl	71	(30 - 115)
2,4,6-Tribromophenol	58	(19 - 122)
Terphenyl-d14	79	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

GC/MS Semivolatiles

Lot-Sample #...: H8F240168-009 **Work Order #...:** CJA03103 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	400	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

GC/MS Semivolatiles

Lot-Sample #...: H8F240168-009 **Work Order #...:** CJA03103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	400	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	ND	400	ug/kg
Benzo(k)fluoranthene	ND	400	ug/kg
Benzo(a)pyrene	ND	400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	ND	400	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(25 - 121)
Phenol-d5	76	(24 - 113)
Nitrobenzene-d5	68	(23 - 120)
2-Fluorobiphenyl	75	(30 - 115)
2,4,6-Tribromophenol	80	(19 - 122)
Terphenyl-d14	78	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8300

GC/MS Semivolatiles

Lot-Sample #...: H8F240168-010 **Work Order #...:** CJA0510V **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	370	ug/kg
bis(2-Chloroethyl) ether	ND	370	ug/kg
2-Chlorophenol	ND	370	ug/kg
1,3-Dichlorobenzene	ND	370	ug/kg
1,4-Dichlorobenzene	ND	370	ug/kg
1,2-Dichlorobenzene	ND	370	ug/kg
2-Methylphenol	ND	370	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	370	ug/kg
4-Methylphenol	ND	370	ug/kg
N-Nitrosodi-n-propylamine	ND	370	ug/kg
Hexachloroethane	ND	370	ug/kg
Nitrobenzene	ND	370	ug/kg
Isophorone	ND	370	ug/kg
2-Nitrophenol	ND	370	ug/kg
2,4-Dimethylphenol	ND	370	ug/kg
bis(2-Chloroethoxy) methane	ND	370	ug/kg
2,4-Dichlorophenol	ND	370	ug/kg
1,2,4-Trichlorobenzene	ND	370	ug/kg
Naphthalene	ND	370	ug/kg
4-Chloroaniline	ND	370	ug/kg
Hexachlorobutadiene	ND	370	ug/kg
4-Chloro-3-methylphenol	ND	370	ug/kg
2-Methylnaphthalene	ND	370	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	370	ug/kg
2,4,5-Trichlorophenol	ND	370	ug/kg
2-Chloronaphthalene	ND	370	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	370	ug/kg
Acenaphthylene	ND	370	ug/kg
2,6-Dinitrotoluene	ND	370	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	370	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	370	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8300

GC/MS Semivolatiles

Lot-Sample #...: H8F240168-010 **Work Order #...:** CJA0510V **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	370	ug/kg
Diethyl phthalate	ND	370	ug/kg
4-Chlorophenyl phenyl ether	ND	370	ug/kg
Fluorene	ND	370	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	370	ug/kg
4-Bromophenyl phenyl ether	ND	370	ug/kg
Hexachlorobenzene	ND	370	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	370	ug/kg
Anthracene	ND	370	ug/kg
Carbazole	ND	370	ug/kg
Di-n-butyl phthalate	ND	370	ug/kg
Fluoranthene	ND	370	ug/kg
Pyrene	ND	370	ug/kg
Butyl benzyl phthalate	ND	370	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	370	ug/kg
Chrysene	ND	370	ug/kg
bis(2-Ethylhexyl) phthalate	ND	370	ug/kg
Di-n-octyl phthalate	ND	370	ug/kg
Benzo(b)fluoranthene	ND	370	ug/kg
Benzo(k)fluoranthene	ND	370	ug/kg
Benzo(a)pyrene	ND	370	ug/kg
Indeno(1,2,3-cd)pyrene	ND	370	ug/kg
Dibenz(a,h)anthracene	ND	370	ug/kg
Benzo(ghi)perylene	ND	370	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(25 - 121)
Phenol-d5	73	(24 - 113)
Nitrobenzene-d5	67	(23 - 120)
2-Fluorobiphenyl	71	(30 - 115)
2,4,6-Tribromophenol	80	(19 - 122)
Terphenyl-d14	75	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

GC/MS Semivolatiles

Lot-Sample #...: H8F290110-002 **Work Order #...:** CJEJQ103 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/11/98
Prep Batch #...: 8181132
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	390	ug/kg
bis(2-Chloroethyl) ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	390	ug/kg
4-Methylphenol	ND	390	ug/kg
N-Nitrosodi-n-propylamine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichlorobenzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	390	ug/kg
2,4,5-Trichlorophenol	ND	390	ug/kg
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	390	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

GC/MS Semivolatiles

Lot-Sample #...: H8F290110-002 **Work Order #...:** CJEJQ103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Carbazole	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
Phenol-d5	64	(24 - 113)
Nitrobenzene-d5	64	(23 - 120)
2-Fluorobiphenyl	65	(30 - 115)
2,4,6-Tribromophenol	74	(19 - 122)
Terphenyl-d14	71	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

GC/MS Semivolatiles

Lot-Sample #...: H8F290110-004 **Work Order #...:** CJEK7103 **Matrix.....:** SOLID
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8181132
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	380	ug/kg
bis(2-Chloroethyl) ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichlorobenzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg
2,4,5-Trichlorophenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	ND	380	ug/kg
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	380	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

GC/MS Semivolatiles

Lot-Sample #...: H8F290110-004 **Work Order #...:** CJEK7103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	380	ug/kg
Anthracene	ND	380	ug/kg
Carbazole	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	ND	380	ug/kg
Pyrene	ND	380	ug/kg
Butyl benzyl phthalate	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	380	ug/kg
Chrysene	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	ND	380	ug/kg
Benzo(k)fluoranthene	ND	380	ug/kg
Benzo(a)pyrene	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg
Dibenz(a,h)anthracene	ND	380	ug/kg
Benzo(ghi)perylene	ND	380	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(25 - 121)
Phenol-d5	59	(24 - 113)
Nitrobenzene-d5	59	(23 - 120)
2-Fluorobiphenyl	63	(30 - 115)
2,4,6-Tribromophenol	77	(19 - 122)
Terphenyl-d14	66	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

GC/MS Semivolatiles

Lot-Sample #...: H8F290110-006 **Work Order #...:** CJEKK103 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8181132
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	390	ug/kg
bis(2-Chloroethyl) ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	390	ug/kg
4-Methylphenol	ND	390	ug/kg
N-Nitrosodi-n-propylamine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichlorobenzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	390	ug/kg
2,4,5-Trichlorophenol	ND	390	ug/kg
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	390	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

GC/MS Semivolatiles

Lot-Sample #...: H8F290110-006 **Work Order #...:** CJEKK103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	**43 J**	**390**	**ug/kg**
Diethyl phthalate	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Carbazole	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
Phenol-d5	60	(24 - 113)
Nitrobenzene-d5	67	(23 - 120)
2-Fluorobiphenyl	70	(30 - 115)
2,4,6-Tribromophenol	85	(19 - 122)
Terphenyl-d14	69	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJCJM101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F260000-113

Prep Date.....: 06/26/98
Analysis Date..: 07/08/98 **Prep Batch #...:** 8177113
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJCJM101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
Phenol-d5	70	(24 - 113)
Nitrobenzene-d5	64	(23 - 120)
2-Fluorobiphenyl	69	(30 - 115)
2,4,6-Tribromophenol	62	(19 - 122)
Terphenyl-d14	74	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJCJM102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F260000-113
Prep Date.....: 06/26/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8177113
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**66**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**67**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**66**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**60**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**75**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**64**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**68**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**57**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**75**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**77**	**(17 - 117)**	**SW846 8270B**
Pyrene	**70**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(25 - 121)
Phenol-d5	75	(24 - 113)
Nitrobenzene-d5	67	(23 - 120)
2-Fluorobiphenyl	72	(30 - 115)
2,4,6-Tribromophenol	61	(19 - 122)
Terphenyl-d14	76	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJF2N101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F300000-132

Prep Date.....: 06/30/98
Analysis Date..: 07/15/98 **Prep Batch #...:** 8181132
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJF2N101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(25 - 121)
Phenol-d5	67	(24 - 113)
Nitrobenzene-d5	72	(23 - 120)
2-Fluorobiphenyl	74	(30 - 115)
2,4,6-Tribromophenol	76	(19 - 122)
Terphenyl-d14	77	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJDJM106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-010 CJDJM107-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8181132
Dilution Factor: 1 **% Moisture.....:** 0.0

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**59**	**(23 - 115)**			**SW846 8270B**
	62	**(23 - 115)**	**4.0**	**(0-41)**	**SW846 8270B**
2-Chlorophenol	**61**	**(20 - 118)**			**SW846 8270B**
	64	**(20 - 118)**	**5.1**	**(0-42)**	**SW846 8270B**
1,4-Dichlorobenzene	**56**	**(16 - 116)**			**SW846 8270B**
	58	**(16 - 116)**	**4.4**	**(0-43)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**49**	**(12 - 126)**			**SW846 8270B**
	63	**(12 - 126)**	**25**	**(0-42)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**65**	**(19 - 124)**			**SW846 8270B**
	68	**(19 - 124)**	**5.4**	**(0-46)**	**SW846 8270B**
4-Chloro-3-methylphenol	**65**	**(28 - 119)**			**SW846 8270B**
	67	**(28 - 119)**	**3.0**	**(0-35)**	**SW846 8270B**
Acenaphthene	**62**	**(23 - 125)**			**SW846 8270B**
	66	**(23 - 125)**	**6.5**	**(0-40)**	**SW846 8270B**
4-Nitrophenol	**66**	**(15 - 130)**			**SW846 8270B**
	65	**(15 - 130)**	**1.8**	**(0-54)**	**SW846 8270B**
2,4-Dinitrotoluene	**63**	**(26 - 122)**			**SW846 8270B**
	66	**(26 - 122)**	**3.7**	**(0-32)**	**SW846 8270B**
Pentachlorophenol	**65**	**(10 - 134)**			**SW846 8270B**
	69	**(10 - 134)**	**5.4**	**(0-53)**	**SW846 8270B**
Pyrene	**69**	**(28 - 128)**			**SW846 8270B**
	72	**(28 - 128)**	**4.2**	**(0-42)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
	62	(25 - 121)
Phenol-d5	63	(24 - 113)
	64	(24 - 113)
Nitrobenzene-d5	64	(23 - 120)
	66	(23 - 120)
2-Fluorobiphenyl	64	(30 - 115)
	66	(30 - 115)
2,4,6-Tribromophenol	70	(19 - 122)
	73	(19 - 122)
Terphenyl-d14	69	(20 - 138)
	70	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJF2N102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F300000-132
Prep Date.....: 06/30/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8181132
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**56**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**58**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**57**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**57**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**74**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**65**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**65**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**74**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**69**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**68**	**(17 - 117)**	**SW846 8270B**
Pyrene	**66**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
Phenol-d5	64	(24 - 113)
Nitrobenzene-d5	69	(23 - 120)
2-Fluorobiphenyl	72	(30 - 115)
2,4,6-Tribromophenol	64	(19 - 122)
Terphenyl-d14	76	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8110

GC Semivolatiles

Lot-Sample #...:	H8F240168-008	**Work Order #...:**	CJ9XT104	**Matrix.....:**	SOLID
Date Sampled...:	06/23/98	**Date Received..:**	06/24/98		
Prep Date.....:	06/26/98	**Analysis Date..:**	07/14/98		
Prep Batch #...:	8177116				
Dilution Factor:	1				
% Moisture.....:	20	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	103	(40 - 134)
Decachlorobiphenyl	107	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

GC Semivolatiles

Lot-Sample #...: H8F240168-009 **Work Order #...:** CJA03104 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8177116
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	94	(40 - 134)
Decachlorobiphenyl	90	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8300

GC Semivolatiles

Lot-Sample #...:	H8F240168-010	Work Order #...:	CJA0510W	Matrix.....:	SOLID
Date Sampled...:	06/23/98	Date Received..:	06/24/98		
Prep Date.....:	06/26/98	Analysis Date..:	07/13/98		
Prep Batch #...:	8177116				
Dilution Factor:	1				
% Moisture.....:	11	Method.....:	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	37	ug/kg
Aroclor 1221	ND	37	ug/kg
Aroclor 1232	ND	37	ug/kg
Aroclor 1242	ND	37	ug/kg
Aroclor 1248	ND	37	ug/kg
Aroclor 1254	ND	37	ug/kg
Aroclor 1260	ND	37	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	102	(40 - 134)
Decachlorobiphenyl	94	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

GC Semivolatiles

Lot-Sample #...:	H8F290110-002	**Work Order #...:**	CJEJQ104	**Matrix.....:**	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/27/98		
Prep Date.....:	06/30/98	**Analysis Date..:**	07/14/98		
Prep Batch #...:	8181113				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	131	(40 - 134)
Decachlorobiphenyl	120	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

GC Semivolatiles

Lot-Sample #...:	H8F290110-004	**Work Order #...:**	CJEK7104	**Matrix.....:**	SOLID
Date Sampled...:	06/26/98	**Date Received..:**	06/27/98		
Prep Date.....:	06/30/98	**Analysis Date..:**	07/14/98		
Prep Batch #...:	8181113				
Dilution Factor:	1				
% Moisture.....:	14	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	ND	38	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	121	(40 - 134)
Decachlorobiphenyl	117	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

GC Semivolatiles

Lot-Sample #...:	H8F290110-006	**Work Order #...:**	CJEKK104	**Matrix.....:**	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/27/98		
Prep Date.....:	06/30/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8181113				
Dilution Factor:	1				
% Moisture.....:	16	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	118	(40 - 134)
Decachlorobiphenyl	112	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJCJT101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F260000-116

Prep Date.....: 06/26/98
Analysis Date..: 07/13/98 **Prep Batch #...:** 8177116
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	104	(40 - 134)
Decachlorobiphenyl	93	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJCJT102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F260000-116
Prep Date.....: 06/26/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8177116
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**109**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**98**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	108	(40 - 134)
Decachlorobiphenyl	101	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJF1M101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F300000-113

Prep Date.....: 06/30/98
Analysis Date..: 07/14/98 **Prep Batch #...:** 8181113
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	114	(40 - 134)
Decachlorobiphenyl	110	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJDJM109-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-010 CJDJM10A-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8181113
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**138**	**(52 - 144)**			**SW846 8081**
	144	**(52 - 144)**	**3.8**	**(0-25)**	**SW846 8081**
Aroclor 1260	**135**	**(45 - 143)**			**SW846 8081**
	138	**(45 - 143)**	**2.4**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115	(40 - 134)
	123	(40 - 134)
Decachlorobiphenyl	122	(38 - 174)
	129	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB033 **Work Order #...:** CJF1M102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F300000-113
Prep Date.....: 06/30/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8181113
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**118**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**108**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	110	(40 - 134)
Decachlorobiphenyl	108	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7240R

HPLC

Lot-Sample #...: H8F240168-001 **Work Order #...:** CJ9X1102 **Matrix.....:** SOLID
Date Sampled...: 06/22/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene.	112	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8100

HPLC

Lot-Sample #...: H8F240168-002 **Work Order #...:** CJ9X8102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	116	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8120

HPLC

Lot-Sample #...: H8F240168-003 **Work Order #...:** CJ9X9102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8150

HPLC

Lot-Sample #...: H8F240168-004 **Work Order #...:** CJ9XE102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	110	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8160

HPLC

Lot-Sample #...: H8F240168-005 **Work Order #...:** CJ9XL102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	110	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8310

HPLC

Lot-Sample #...: H8F240168-006 **Work Order #...:** CJ9XN102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8320

HPLC

Lot-Sample #...: H8F240168-007 **Work Order #...:** CJ9XR102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	113	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8110

HPLC

Lot-Sample #...: H8F240168-008 **Work Order #...:** CJ9XT105 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

HPLC

Lot-Sample #...: H8F240168-009 **Work Order #...:** CJA03105 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8300

HPLC

Lot-Sample #...: H8F240168-010 **Work Order #...:** CJA05102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	103	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8340

HPLC

Lot-Sample #...: H8F290110-001 **Work Order #...:** CJEJH102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene.	100	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

HPLC

Lot-Sample #...: H8F290110-002 **Work Order #...:** CJEJQ105 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8360

HPLC

Lot-Sample #...: H8F290110-003 **Work Order #...:** CJEK0102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	104	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

HPLC

Lot-Sample #...: H8F290110-004 **Work Order #...:** CJEK7105 **Matrix.....:** SOLID
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	103	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8470

HPLC

Lot-Sample #...: H8F290110-005 **Work Order #...:** CJEKE102 **Matrix.....:** SOLID
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	**1.4**	**0.25**	**mg/kg**
2,6-Dinitrotoluene	**1.5**	**0.25**	**mg/kg**
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**4.4**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	**0.38**	**0.25**	**mg/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	104	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

HPLC

Lot-Sample #...: H8F290110-006 **Work Order #...:** CJEKK105 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8510

HPLC

Lot-Sample #...: H8F290110-007 **Work Order #...:** CJEKT102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8520

HPLC

Lot-Sample #...: H8F290110-008 **Work Order #...:** CJEKW102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/27/98
Prep Date.....: **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**0.74**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(72 - 129)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB033 **Work Order #...:** CJGP3101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G010000-290

Prep Date.....: 07/01/98
Analysis Date..: 07/09/98 **Prep Batch #...:** 8182290
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	111	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8F250218 **Work Order #...:** CJJPH102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G060000-151
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**94**	**(65 - 117)**	**SW846 8330**
RDX	**106**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**112**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**106**	**(75 - 123)**	**SW846 8330**
Tetryl	**69**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**104**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**62 a**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**115**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**100**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**104**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**106**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**109**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**107**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**108**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	112	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

HPLC

Client Lot #...: PB033 **Work Order #...:** CJJPH101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G060000-151

Prep Date.....: 07/07/98
Analysis Date..: 07/09/98 **Prep Batch #...:** 8187151
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB033 **Work Order #...:** CJCFE10D-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F250218-001 CJCFE10E-MSD
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	106	(48 - 125)			SW846 8330
	105	(48 - 125)	0.50	(0-15)	SW846 8330
RDX	107	(61 - 127)			SW846 8330
	113	(61 - 127)	5.3	(0-15)	SW846 8330
1,3,5-Trinitrobenzene	120	(74 - 126)			SW846 8330
	123	(74 - 126)	2.5	(0-15)	SW846 8330
1,3-Dinitrobenzene	113	(71 - 126)			SW846 8330
	116	(71 - 126)	2.5	(0-15)	SW846 8330
Tetryl	94	(32 - 143)			SW846 8330
	102	(32 - 143)	7.4	(0-26)	SW846 8330
Nitrobenzene	112	(76 - 122)			SW846 8330
	113	(76 - 122)	1.4	(0-15)	SW846 8330
2,4,6-Trinitrotoluene	108	(69 - 132)			SW846 8330
	109	(69 - 132)	0.82	(0-15)	SW846 8330
4-Amino-2,6-dinitrotoluen	110	(67 - 127)			SW846 8330
	113	(67 - 127)	2.6	(0-15)	SW846 8330
2,6-Dinitrotoluene	107	(75 - 122)			SW846 8330
	111	(75 - 122)	3.3	(0-15)	SW846 8330
2,4-Dinitrotoluene	113	(75 - 124)			SW846 8330
	115	(75 - 124)	2.0	(0-15)	SW846 8330
2-Nitrotoluene	113	(77 - 125)			SW846 8330
	116	(77 - 125)	2.4	(0-15)	SW846 8330
3-Nitrotoluene	115	(76 - 121)			SW846 8330
	117	(76 - 121)	1.7	(0-15)	SW846 8330
2-Amino-4,6-dinitrotoluen	112	(76 - 120)			SW846 8330
	116	(76 - 120)	3.3	(0-15)	SW846 8330
4-Nitrotoluene	112	(76 - 122)			SW846 8330
	119	(76 - 122)	5.7	(0-25)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	114	(72 - 129)
	118	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB033 **Work Order #...:** CJGP3102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G010000-290
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**98**	**(65 - 117)**	**SW846 8330**
RDX	**108**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**111**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**105**	**(75 - 123)**	**SW846 8330**
Tetryl	**91**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**105**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**96**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**106**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**98**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**103**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**104**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**109**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**106**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**109**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 7240R

TOTAL Metals

Lot-Sample #...: H8F240168-001 Matrix.....: SOLID
Date Sampled...: 06/22/98 Date Received..: 06/24/98
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	0.040	0.038	mg/kg	SW846 7471A	07/14/98	CJ9X110T
		Dilution Factor: 1		Analysis Time..: 13:45		
Prep Batch #...: 8197307						
Aluminum	9210	23.0	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X1103
		Dilution Factor: 1		Analysis Time..: 14:38		
Arsenic	5.0	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X110N
		Dilution Factor: 1		Analysis Time..: 17:49		
Lead	12.3	0.35	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X110P
		Dilution Factor: 1		Analysis Time..: 17:49		
Antimony	ND	6.9	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X1104
		Dilution Factor: 1		Analysis Time..: 14:38		
Barium	45.1	23.0	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X1105
		Dilution Factor: 1		Analysis Time..: 14:38		
Selenium	ND	0.58	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X110Q
		Dilution Factor: 1		Analysis Time..: 17:49		
Beryllium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X1106
		Dilution Factor: 1		Analysis Time..: 14:38		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X110R
		Dilution Factor: 1		Analysis Time..: 17:49		
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X1107
		Dilution Factor: 1		Analysis Time..: 14:38		
Calcium	10300	576	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X1108
		Dilution Factor: 1		Analysis Time..: 14:38		
Chromium	13.3	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X1109
		Dilution Factor: 1		Analysis Time..: 14:38		
Cobalt	6.6	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110A
		Dilution Factor: 1		Analysis Time..: 14:38		
Copper	12.6	2.9	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110C
		Dilution Factor: 1		Analysis Time..: 14:38		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7240R

TOTAL Metals

Lot-Sample #...: H8F240168-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	14300	11.5	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110D
		Dilution Factor: 1		Analysis Time..: 14:38		
Magnesium	5150	576	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110E
		Dilution Factor: 1		Analysis Time..: 14:38		
Manganese	234	1.7	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110F
		Dilution Factor: 1		Analysis Time..: 14:38		
Nickel	14.6	4.6	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110G
		Dilution Factor: 1		Analysis Time..: 14:38		
Potassium	1460	576	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110H
		Dilution Factor: 1		Analysis Time..: 14:38		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110J
		Dilution Factor: 1		Analysis Time..: 14:38		
Sodium	ND	576	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110K
		Dilution Factor: 1		Analysis Time..: 14:38		
Vanadium	23.1	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110L
		Dilution Factor: 1		Analysis Time..: 14:38		
Zinc	45.5	2.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X110M
		Dilution Factor: 1		Analysis Time..: 14:38		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8100

TOTAL Metals

Lot-Sample #...: H8F240168-002 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.038	mg/kg	SW846 7471A	07/14/98	CJ9X810T
		Dilution Factor: 1		Analysis Time..: 13:47		
Prep Batch #...: 8197307						
Aluminum	**6880**	**22.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9X8103**
		Dilution Factor: 1		Analysis Time..: 14:45		
Arsenic	**2.8**	**1.1**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJ9X810N**
		Dilution Factor: 1		Analysis Time..: 17:55		
Lead	**3.6**	**0.34**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJ9X810P**
		Dilution Factor: 1		Analysis Time..: 17:55		
Antimony	ND	6.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X8104
		Dilution Factor: 1		Analysis Time..: 14:45		
Barium	ND	22.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X8105
		Dilution Factor: 1		Analysis Time..: 14:45		
Selenium	ND	0.57	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X810Q
		Dilution Factor: 1		Analysis Time..: 17:55		
Beryllium	ND	0.57	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X8106
		Dilution Factor: 1		Analysis Time..: 14:45		
Thallium	ND	1.1	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X810R
		Dilution Factor: 1		Analysis Time..: 17:55		
Cadmium	ND	0.57	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X8107
		Dilution Factor: 1		Analysis Time..: 14:45		
Calcium	**1490**	**569**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9X8108**
		Dilution Factor: 1		Analysis Time..: 14:45		
Chromium	**9.9**	**1.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9X8109**
		Dilution Factor: 1		Analysis Time..: 14:45		
Cobalt	ND	5.7	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810A
		Dilution Factor: 1		Analysis Time..: 14:45		
Copper	**4.0**	**2.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9X810C**
		Dilution Factor: 1		Analysis Time..: 14:45		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8100

TOTAL Metals

Lot-Sample #...: H8F240168-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	10300	11.4	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810D
		Dilution Factor: 1		Analysis Time..: 14:45		
Magnesium	1090	569	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810E
		Dilution Factor: 1		Analysis Time..: 14:45		
Manganese	89.6	1.7	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810F
		Dilution Factor: 1		Analysis Time..: 14:45		
Nickel	7.6	4.6	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810G
		Dilution Factor: 1		Analysis Time..: 14:45		
Potassium	ND	569	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810H
		Dilution Factor: 1		Analysis Time..: 14:45		
Silver	ND	1.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810J
		Dilution Factor: 1		Analysis Time..: 14:45		
Sodium	ND	569	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810K
		Dilution Factor: 1		Analysis Time..: 14:45		
Vanadium	18.9	5.7	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810L
		Dilution Factor: 1		Analysis Time..: 14:45		
Zinc	21.7	2.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X810M
		Dilution Factor: 1		Analysis Time..: 14:45		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8120

TOTAL Metals

Lot-Sample #...: H8F240168-003 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.041	mg/kg	SW846 7471A	07/14/98	CJ9X910T
		Dilution Factor: 1		Analysis Time..: 13:54		
Prep Batch #...: 8197307						
Aluminum	6010	24.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X9103
		Dilution Factor: 1		Analysis Time..: 15:00		
Arsenic	4.5	2.5	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X910N
		Dilution Factor: 2		Analysis Time..: 18:01		
Lead	7.1	0.75	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X910P
		Dilution Factor: 2		Analysis Time..: 18:01		
Antimony	ND	7.5	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X9104
		Dilution Factor: 1		Analysis Time..: 15:00		
Barium	27.9	24.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X9105
		Dilution Factor: 1		Analysis Time..: 15:00		
Selenium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X910Q
		Dilution Factor: 2		Analysis Time..: 18:01		
Beryllium	ND	0.62	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X9106
		Dilution Factor: 1		Analysis Time..: 15:00		
Thallium	ND	2.5	mg/kg	SW846 6010A	07/17-07/20/98	CJ9X910R
		Dilution Factor: 2		Analysis Time..: 18:01		
Cadmium	ND	0.62	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X9107
		Dilution Factor: 1		Analysis Time..: 15:00		
Calcium	67600	621	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X9108
		Dilution Factor: 1		Analysis Time..: 15:00		
Chromium	10.9	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X9109
		Dilution Factor: 1		Analysis Time..: 15:00		
Cobalt	6.2	6.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910A
		Dilution Factor: 1		Analysis Time..: 15:00		
Copper	17.1	3.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910C
		Dilution Factor: 1		Analysis Time..: 15:00		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8120

TOTAL Metals

Lot-Sample #...: H8F240168-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	15000	12.4	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910D
		Dilution Factor: 1		Analysis Time..: 15:00		
Magnesium	20700	621	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910E
		Dilution Factor: 1		Analysis Time..: 15:00		
Manganese	329	1.9	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910F
		Dilution Factor: 1		Analysis Time..: 15:00		
Nickel	14.0	5.0	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910G
		Dilution Factor: 1		Analysis Time..: 15:00		
Potassium	1480	621	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910H
		Dilution Factor: 1		Analysis Time..: 15:00		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910J
		Dilution Factor: 1		Analysis Time..: 15:00		
Sodium	ND	621	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910K
		Dilution Factor: 1		Analysis Time..: 15:00		
Vanadium	20.5	6.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910L
		Dilution Factor: 1		Analysis Time..: 15:00		
Zinc	40.0	2.5	mg/kg	SW846 6010A	07/17-07/18/98	CJ9X910M
		Dilution Factor: 1		Analysis Time..: 15:00		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8150

TOTAL Metals

Lot-Sample #...: H8F240168-004 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.040	mg/kg	SW846 7471A	07/14/98	CJ9XE10T
		Dilution Factor: 1		Analysis Time..: 13:57		
Prep Batch #...: 8197307						
Aluminum	**7540**	**24.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XE103**
		Dilution Factor: 1		Analysis Time..: 15:05		
Arsenic	**2.5**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJ9XE10N**
		Dilution Factor: 1		Analysis Time..: 18:06		
Lead	**4.8**	**0.36**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJ9XE10P**
		Dilution Factor: 1		Analysis Time..: 18:06		
Antimony	ND	7.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE104
		Dilution Factor: 1		Analysis Time..: 15:05		
Barium	**32.1**	**24.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XE105**
		Dilution Factor: 1		Analysis Time..: 15:05		
Selenium	ND	0.60	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XE10Q
		Dilution Factor: 1		Analysis Time..: 18:06		
Beryllium	ND	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE106
		Dilution Factor: 1		Analysis Time..: 15:05		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XE10R
		Dilution Factor: 1		Analysis Time..: 18:06		
Cadmium	ND	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE107
		Dilution Factor: 1		Analysis Time..: 15:05		
Calcium	**3010**	**602**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XE108**
		Dilution Factor: 1		Analysis Time..: 15:05		
Chromium	**12.1**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XE109**
		Dilution Factor: 1		Analysis Time..: 15:05		
Cobalt	ND	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10A
		Dilution Factor: 1		Analysis Time..: 15:05		
Copper	**7.0**	**3.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XE10C**
		Dilution Factor: 1		Analysis Time..: 15:05		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8150

TOTAL Metals

Lot-Sample #...: H8F240168-004 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	11500	12.0	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10D
		Dilution Factor: 1		Analysis Time..: 15:05		
Magnesium	2110	602	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10E
		Dilution Factor: 1		Analysis Time..: 15:05		
Manganese	92.5	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10F
		Dilution Factor: 1		Analysis Time..: 15:05		
Nickel	13.0	4.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10G
		Dilution Factor: 1		Analysis Time..: 15:05		
Potassium	1210	602	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10H
		Dilution Factor: 1		Analysis Time..: 15:05		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10J
		Dilution Factor: 1		Analysis Time..: 15:05		
Sodium	ND	602	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10K
		Dilution Factor: 1		Analysis Time..: 15:05		
Vanadium	17.8	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10L
		Dilution Factor: 1		Analysis Time..: 15:05		
Zinc	33.9	2.4	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XE10M
		Dilution Factor: 1		Analysis Time..: 15:05		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8160

TOTAL Metals

Lot-Sample #...: H8F240168-005 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.042	mg/kg	SW846 7471A	07/14/98	CJ9XL10T
		Dilution Factor: 1		Analysis Time..: 13:59		
Prep Batch #...: 8197307						
Aluminum	14500	25.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL103
		Dilution Factor: 1		Analysis Time..: 15:09		
Arsenic	11.7	2.5	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XL10N
		Dilution Factor: 2		Analysis Time..: 18:23		
Lead	10.8	0.76	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XL10P
		Dilution Factor: 2		Analysis Time..: 18:23		
Antimony	ND	7.6	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL104
		Dilution Factor: 1		Analysis Time..: 15:09		
Barium	75.3	25.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL105
		Dilution Factor: 1		Analysis Time..: 15:09		
Selenium	ND	1.3	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XL10Q
		Dilution Factor: 2		Analysis Time..: 18:23		
Beryllium	0.70	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL106
		Dilution Factor: 1		Analysis Time..: 15:09		
Thallium	ND	2.5	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XL10R
		Dilution Factor: 2		Analysis Time..: 18:23		
Cadmium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL107
		Dilution Factor: 1		Analysis Time..: 15:09		
Calcium	56600	634	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL108
		Dilution Factor: 1		Analysis Time..: 15:09		
Chromium	22.2	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL109
		Dilution Factor: 1		Analysis Time..: 15:09		
Cobalt	10	6.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10A
		Dilution Factor: 1		Analysis Time..: 15:09		
Copper	25.6	3.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10C
		Dilution Factor: 1		Analysis Time..: 15:09		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8160

TOTAL Metals

Lot-Sample #...: H8F240168-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	26400	12.7	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10D
		Dilution Factor: 1		Analysis Time..: 15:09		
Magnesium	15100	634	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10E
		Dilution Factor: 1		Analysis Time..: 15:09		
Manganese	423	1.9	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10F
		Dilution Factor: 1		Analysis Time..: 15:09		
Nickel	27.8	5.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10G
		Dilution Factor: 1		Analysis Time..: 15:09		
Potassium	3370	634	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10H
		Dilution Factor: 1		Analysis Time..: 15:09		
Silver	ND	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10J
		Dilution Factor: 1		Analysis Time..: 15:09		
Sodium	ND	634	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10K
		Dilution Factor: 1		Analysis Time..: 15:09		
Vanadium	34.6	6.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10L
		Dilution Factor: 1		Analysis Time..: 15:09		
Zinc	68.1	2.5	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XL10M
		Dilution Factor: 1		Analysis Time..: 15:09		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8310

TOTAL Metals

Lot-Sample #...: H8F240168-006 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/14/98	CJ9XN10T
		Dilution Factor: 1		Analysis Time..: 14:01		
Prep Batch #...: 8197307						
Aluminum	8610	23.4	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN103
		Dilution Factor: 1		Analysis Time..: 15:14		
Arsenic	6.8	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XN10N
		Dilution Factor: 1		Analysis Time..: 18:28		
Lead	7.1	0.35	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XN10P
		Dilution Factor: 1		Analysis Time..: 18:28		
Antimony	ND	7.0	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN104
		Dilution Factor: 1		Analysis Time..: 15:14		
Barium	31.3	23.4	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN105
		Dilution Factor: 1		Analysis Time..: 15:14		
Selenium	ND	0.58	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XN10Q
		Dilution Factor: 1		Analysis Time..: 18:28		
Beryllium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN106
		Dilution Factor: 1		Analysis Time..: 15:14		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XN10R
		Dilution Factor: 1		Analysis Time..: 18:28		
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN107
		Dilution Factor: 1		Analysis Time..: 15:14		
Calcium	2530	585	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN108
		Dilution Factor: 1		Analysis Time..: 15:14		
Chromium	15.5	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN109
		Dilution Factor: 1		Analysis Time..: 15:14		
Cobalt	7.9	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10A
		Dilution Factor: 1		Analysis Time..: 15:14		
Copper	12.4	2.9	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10C
		Dilution Factor: 1		Analysis Time..: 15:14		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8310

TOTAL Metals

Lot-Sample #...: H8F240168-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	17000	11.7	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10D
		Dilution Factor: 1		Analysis Time..: 15:14		
Magnesium	1860	585	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10E
		Dilution Factor: 1		Analysis Time..: 15:14		
Manganese	413	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10F
		Dilution Factor: 1		Analysis Time..: 15:14		
Nickel	14.8	4.7	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10G
		Dilution Factor: 1		Analysis Time..: 15:14		
Potassium	924	585	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10H
		Dilution Factor: 1		Analysis Time..: 15:14		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10J
		Dilution Factor: 1		Analysis Time..: 15:14		
Sodium	ND	585	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10K
		Dilution Factor: 1		Analysis Time..: 15:14		
Vanadium	25.4	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10L
		Dilution Factor: 1		Analysis Time..: 15:14		
Zinc	39.3	2.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XN10M
		Dilution Factor: 1		Analysis Time..: 15:14		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8320

TOTAL Metals

Lot-Sample #...: H8F240168-007 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.041	mg/kg	SW846 7471A	07/14/98	CJ9XR10T
		Dilution Factor: 1		Analysis Time..: 14:04		
Prep Batch #...: 8197307						
Aluminum	12100	25.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR103
		Dilution Factor: 1		Analysis Time..: 15:19		
Arsenic	6.6	2.5	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XR10N
		Dilution Factor: 2		Analysis Time..: 18:34		
Lead	11.6	0.75	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XR10P
		Dilution Factor: 2		Analysis Time..: 18:34		
Antimony	ND	7.5	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR104
		Dilution Factor: 1		Analysis Time..: 15:19		
Barium	82.3	25.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR105
		Dilution Factor: 1		Analysis Time..: 15:19		
Selenium	ND	1.3	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XR10Q
		Dilution Factor: 2		Analysis Time..: 18:34		
Beryllium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR106
		Dilution Factor: 1		Analysis Time..: 15:19		
Thallium	ND	2.5	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XR10R
		Dilution Factor: 2		Analysis Time..: 18:34		
Cadmium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR107
		Dilution Factor: 1		Analysis Time..: 15:19		
Calcium	55700	627	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR108
		Dilution Factor: 1		Analysis Time..: 15:19		
Chromium	17.9	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR109
		Dilution Factor: 1		Analysis Time..: 15:19		
Cobalt	12.8	6.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR10A
		Dilution Factor: 1		Analysis Time..: 15:19		
Copper	23.5	3.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR10C
		Dilution Factor: 1		Analysis Time..: 15:19		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8320

TOTAL Metals

Lot-Sample #...: H8F240168-007 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**21500**	**12.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XR10D**
		Dilution Factor: 1		Analysis Time..: 15:19		
Magnesium	**17700**	**627**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XR10E**
		Dilution Factor: 1		Analysis Time..: 15:19		
Manganese	**768**	**1.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XR10F**
		Dilution Factor: 1		Analysis Time..: 15:19		
Nickel	**31.4**	**5.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XR10G**
		Dilution Factor: 1		Analysis Time..: 15:19		
Potassium	**2860**	**627**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XR10H**
		Dilution Factor: 1		Analysis Time..: 15:19		
Silver	ND	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR10J
		Dilution Factor: 1		Analysis Time..: 15:19		
Sodium	ND	627	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XR10K
		Dilution Factor: 1		Analysis Time..: 15:19		
Vanadium	**30.8**	**6.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XR10L**
		Dilution Factor: 1		Analysis Time..: 15:19		
Zinc	**62.2**	**2.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XR10M**
		Dilution Factor: 1		Analysis Time..: 15:19		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8110

TOTAL Metals

Lot-Sample #...: H8F240168-008 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.041	mg/kg	SW846 7471A	07/14/98	CJ9XT10W
		Dilution Factor: 1		Analysis Time..: 14:06		
Prep Batch #...: 8197307						
Aluminum	9190	25.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT106
		Dilution Factor: 1		Analysis Time..: 15:24		
Arsenic	8.6	1.3	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XT10R
		Dilution Factor: 1		Analysis Time..: 18:39		
Lead	8.1	0.38	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XT10T
		Dilution Factor: 1		Analysis Time..: 18:39		
Antimony	ND	7.5	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT107
		Dilution Factor: 1		Analysis Time..: 15:24		
Barium	40.3	25.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT108
		Dilution Factor: 1		Analysis Time..: 15:24		
Selenium	ND	0.63	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XT10U
		Dilution Factor: 1		Analysis Time..: 18:39		
Beryllium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT109
		Dilution Factor: 1		Analysis Time..: 15:24		
Thallium	ND	1.3	mg/kg	SW846 6010A	07/17-07/20/98	CJ9XT10V
		Dilution Factor: 1		Analysis Time..: 18:39		
Cadmium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT10A
		Dilution Factor: 1		Analysis Time..: 15:24		
Calcium	35700	628	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT10C
		Dilution Factor: 1		Analysis Time..: 15:24		
Chromium	16.1	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT10D
		Dilution Factor: 1		Analysis Time..: 15:24		
Cobalt	8.5	6.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT10E
		Dilution Factor: 1		Analysis Time..: 15:24		
Copper	20.1	3.1	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT10F
		Dilution Factor: 1		Analysis Time..: 15:24		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8110

TOTAL Metals

Lot-Sample #...: H8F240168-008 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**19600**	**12.6**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XT10G**
		Dilution Factor: 1		Analysis Time..: 15:24		
Magnesium	**14500**	**628**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XT10H**
		Dilution Factor: 1		Analysis Time..: 15:24		
Manganese	**282**	**1.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XT10J**
		Dilution Factor: 1		Analysis Time..: 15:24		
Nickel	**19.4**	**5.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XT10K**
		Dilution Factor: 1		Analysis Time..: 15:24		
Potassium	**2010**	**628**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XT10L**
		Dilution Factor: 1		Analysis Time..: 15:24		
Silver	ND	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT10M
		Dilution Factor: 1		Analysis Time..: 15:24		
Sodium	ND	628	mg/kg	SW846 6010A	07/17-07/18/98	CJ9XT10N
		Dilution Factor: 1		Analysis Time..: 15:24		
Vanadium	**28.0**	**6.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XT10P**
		Dilution Factor: 1		Analysis Time..: 15:24		
Zinc	**51.2**	**2.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJ9XT10Q**
		Dilution Factor: 1		Analysis Time..: 15:24		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

TOTAL Metals

Lot-Sample #...: H8F240168-009 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	0.061	0.040	mg/kg	SW846 7471A	07/14/98	CJA0310W
		Dilution Factor: 1		Analysis Time..: 14:08		
Prep Batch #...: 8197307						
Aluminum	17900	24.0	mg/kg	SW846 6010A	07/17-07/18/98	CJA03106
		Dilution Factor: 1		Analysis Time..: 15:29		
Arsenic	7.2	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJA0310R
		Dilution Factor: 1		Analysis Time..: 18:45		
Lead	13.5	0.36	mg/kg	SW846 6010A	07/17-07/20/98	CJA0310T
		Dilution Factor: 1		Analysis Time..: 18:45		
Antimony	ND	7.2	mg/kg	SW846 6010A	07/17-07/18/98	CJA03107
		Dilution Factor: 1		Analysis Time..: 15:29		
Barium	124	24.0	mg/kg	SW846 6010A	07/17-07/18/98	CJA03108
		Dilution Factor: 1		Analysis Time..: 15:29		
Selenium	ND	0.60	mg/kg	SW846 6010A	07/17-07/20/98	CJA0310U
		Dilution Factor: 1		Analysis Time..: 18:45		
Beryllium	1.0	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJA03109
		Dilution Factor: 1		Analysis Time..: 15:29		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJA0310V
		Dilution Factor: 1		Analysis Time..: 18:45		
Cadmium	ND	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310A
		Dilution Factor: 1		Analysis Time..: 15:29		
Calcium	5930	600	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310C
		Dilution Factor: 1		Analysis Time..: 15:29		
Chromium	20.8	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310D
		Dilution Factor: 1		Analysis Time..: 15:29		
Cobalt	16.2	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310E
		Dilution Factor: 1		Analysis Time..: 15:29		
Copper	20.0	3.0	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310F
		Dilution Factor: 1		Analysis Time..: 15:29		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8140

TOTAL Metals

Lot-Sample #...: H8F240168-009 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	26800	12.0	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310G
		Dilution Factor: 1		Analysis Time..: 15:29		
Magnesium	4020	600	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310H
		Dilution Factor: 1		Analysis Time..: 15:29		
Manganese	1190	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310J
		Dilution Factor: 1		Analysis Time..: 15:29		
Nickel	29.1	4.8	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310K
		Dilution Factor: 1		Analysis Time..: 15:29		
Potassium	2490	600	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310L
		Dilution Factor: 1		Analysis Time..: 15:29		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310M
		Dilution Factor: 1		Analysis Time..: 15:29		
Sodium	ND	600	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310N
		Dilution Factor: 1		Analysis Time..: 15:29		
Vanadium	37.7	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310P
		Dilution Factor: 1		Analysis Time..: 15:29		
Zinc	87.4	2.4	mg/kg	SW846 6010A	07/17-07/18/98	CJA0310Q
		Dilution Factor: 1		Analysis Time..: 15:29		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8300

TOTAL Metals

Lot-Sample #...: H8F240168-010 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/24/98
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.037	mg/kg	SW846 7471A	07/14/98	CJA0510T
		Dilution Factor: 1		Analysis Time..: 14:15		
Prep Batch #...: 8197307						
Aluminum	5600	22.4	mg/kg	SW846 6010A	07/17-07/18/98	CJA05103
		Dilution Factor: 1		Analysis Time..: 15:59		
Arsenic	2.3	1.1	mg/kg	SW846 6010A	07/17-07/20/98	CJA0510N
		Dilution Factor: 1		Analysis Time..: 19:07		
Lead	2.8	0.34	mg/kg	SW846 6010A	07/17-07/20/98	CJA0510P
		Dilution Factor: 1		Analysis Time..: 19:07		
Antimony	ND	6.7	mg/kg	SW846 6010A	07/17-07/18/98	CJA05104
		Dilution Factor: 1		Analysis Time..: 15:59		
Barium	ND	22.4	mg/kg	SW846 6010A	07/17-07/18/98	CJA05105
		Dilution Factor: 1		Analysis Time..: 15:59		
Selenium	ND	0.56	mg/kg	SW846 6010A	07/17-07/20/98	CJA0510Q
		Dilution Factor: 1		Analysis Time..: 19:07		
Beryllium	ND	0.56	mg/kg	SW846 6010A	07/17-07/18/98	CJA05106
		Dilution Factor: 1		Analysis Time..: 15:59		
Thallium	ND	1.1	mg/kg	SW846 6010A	07/17-07/20/98	CJA0510R
		Dilution Factor: 1		Analysis Time..: 19:07		
Cadmium	ND	0.56	mg/kg	SW846 6010A	07/17-07/18/98	CJA05107
		Dilution Factor: 1		Analysis Time..: 15:59		
Calcium	1620	560	mg/kg	SW846 6010A	07/17-07/18/98	CJA05108
		Dilution Factor: 1		Analysis Time..: 15:59		
Chromium	8.9	1.1	mg/kg	SW846 6010A	07/17-07/18/98	CJA05109
		Dilution Factor: 1		Analysis Time..: 15:59		
Cobalt	ND	5.6	mg/kg	SW846 6010A	07/17-07/18/98	CJA0510A
		Dilution Factor: 1		Analysis Time..: 15:59		
Copper	4.5	2.8	mg/kg	SW846 6010A	07/17-07/18/98	CJA0510C
		Dilution Factor: 1		Analysis Time..: 15:59		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8300

TOTAL Metals

Lot-Sample #...: H8F240168-010 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**10200**	**11.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJA0510D**
		Dilution Factor: 1		Analysis Time..: 15:59		
Magnesium	**1060**	**560**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJA0510E**
		Dilution Factor: 1		Analysis Time..: 15:59		
Manganese	**143**	**1.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJA0510F**
		Dilution Factor: 1		Analysis Time..: 15:59		
Nickel	**7.1**	**4.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJA0510G**
		Dilution Factor: 1		Analysis Time..: 15:59		
Potassium	ND	560	mg/kg	SW846 6010A	07/17-07/18/98	CJA0510H
		Dilution Factor: 1		Analysis Time..: 15:59		
Silver	ND	1.1	mg/kg	SW846 6010A	07/17-07/18/98	CJA0510J
		Dilution Factor: 1		Analysis Time..: 15:59		
Sodium	ND	560	mg/kg	SW846 6010A	07/17-07/18/98	CJA0510K
		Dilution Factor: 1		Analysis Time..: 15:59		
Vanadium	**17.9**	**5.6**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJA0510L**
		Dilution Factor: 1		Analysis Time..: 15:59		
Zinc	**21.1**	**2.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJA0510M**
		Dilution Factor: 1		Analysis Time..: 15:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8340

TOTAL Metals

Lot-Sample #...: H8F290110-001 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/27/98
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/14/98	CJEJH10T
		Dilution Factor: 1		Analysis Time..: 14:22		
Prep Batch #...: 8197307						
Aluminum	11500	23.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH103
		Dilution Factor: 1		Analysis Time..: 16:04		
Arsenic	3.7	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEJH10N
		Dilution Factor: 1		Analysis Time..: 19:13		
Lead	10.1	0.36	mg/kg	SW846 6010A	07/17-07/20/98	CJEJH10P
		Dilution Factor: 1		Analysis Time..: 19:13		
Antimony	ND	7.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH104
		Dilution Factor: 1		Analysis Time..: 16:04		
Barium	69.7	23.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH105
		Dilution Factor: 1		Analysis Time..: 16:04		
Selenium	ND	0.60	mg/kg	SW846 6010A	07/17-07/20/98	CJEJH10Q
		Dilution Factor: 1		Analysis Time..: 19:13		
Beryllium	0.70	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH106
		Dilution Factor: 1		Analysis Time..: 16:04		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEJH10R
		Dilution Factor: 1		Analysis Time..: 19:13		
Cadmium	ND	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH107
		Dilution Factor: 1		Analysis Time..: 16:04		
Calcium	2700	598	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH108
		Dilution Factor: 1		Analysis Time..: 16:04		
Chromium	15.8	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH109
		Dilution Factor: 1		Analysis Time..: 16:04		
Cobalt	9.0	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH10A
		Dilution Factor: 1		Analysis Time..: 16:04		
Copper	15.9	3.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH10C
		Dilution Factor: 1		Analysis Time..: 16:04		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8340

TOTAL Metals

Lot-Sample #...: H8F290110-001 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**16800**	**12.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEJH10D**
		Dilution Factor: 1		Analysis Time..: 16:04		
Magnesium	**2720**	**598**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEJH10E**
		Dilution Factor: 1		Analysis Time..: 16:04		
Manganese	**186**	**1.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEJH10F**
		Dilution Factor: 1		Analysis Time..: 16:04		
Nickel	**22.3**	**4.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEJH10G**
		Dilution Factor: 1		Analysis Time..: 16:04		
Potassium	**1650**	**598**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEJH10H**
		Dilution Factor: 1		Analysis Time..: 16:04		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH10J
		Dilution Factor: 1		Analysis Time..: 16:04		
Sodium	ND	598	mg/kg	SW846 6010A	07/17-07/18/98	CJEJH10K
		Dilution Factor: 1		Analysis Time..: 16:04		
Vanadium	**21.1**	**6.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEJH10L**
		Dilution Factor: 1		Analysis Time..: 16:04		
Zinc	**70.5**	**2.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEJH10M**
		Dilution Factor: 1		Analysis Time..: 16:04		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

TOTAL Metals

Lot-Sample #...: H8F290110-002 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/27/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/14/98	CJEJQ10W
		Dilution Factor: 1		Analysis Time..: 14:25		
Prep Batch #...: 8197307						
Aluminum	9160	23.4	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ106
		Dilution Factor: 1		Analysis Time..: 16:09		
Arsenic	3.1	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEJQ10R
		Dilution Factor: 1		Analysis Time..: 19:29		
Lead	6.9	0.35	mg/kg	SW846 6010A	07/17-07/20/98	CJEJQ10T
		Dilution Factor: 1		Analysis Time..: 19:29		
Antimony	ND	7.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ107
		Dilution Factor: 1		Analysis Time..: 16:09		
Barium	43.3	23.4	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ108
		Dilution Factor: 1		Analysis Time..: 16:09		
Selenium	ND	0.58	mg/kg	SW846 6010A	07/17-07/20/98	CJEJQ10U
		Dilution Factor: 1		Analysis Time..: 19:29		
Beryllium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ109
		Dilution Factor: 1		Analysis Time..: 16:09		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEJQ10V
		Dilution Factor: 1		Analysis Time..: 19:29		
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10A
		Dilution Factor: 1		Analysis Time..: 16:09		
Calcium	2410	584	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10C
		Dilution Factor: 1		Analysis Time..: 16:09		
Chromium	14.1	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10D
		Dilution Factor: 1		Analysis Time..: 16:09		
Cobalt	7.3	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10E
		Dilution Factor: 1		Analysis Time..: 16:09		
Copper	12.5	2.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10F
		Dilution Factor: 1		Analysis Time..: 16:09		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8350

TOTAL Metals

Lot-Sample #...: H8F290110-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	13900	11.7	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10G
		Dilution Factor: 1		Analysis Time..: 16:09		
Magnesium	2340	584	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10H
		Dilution Factor: 1		Analysis Time..: 16:09		
Manganese	123	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10J
		Dilution Factor: 1		Analysis Time..: 16:09		
Nickel	18.3	4.7	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10K
		Dilution Factor: 1		Analysis Time..: 16:09		
Potassium	1650	584	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10L
		Dilution Factor: 1		Analysis Time..: 16:09		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10M
		Dilution Factor: 1		Analysis Time..: 16:09		
Sodium	ND	584	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10N
		Dilution Factor: 1		Analysis Time..: 16:09		
Vanadium	20.4	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10P
		Dilution Factor: 1		Analysis Time..: 16:09		
Zinc	57.5	2.3	mg/kg	SW846 6010A	07/17-07/18/98	CJEJQ10Q
		Dilution Factor: 1		Analysis Time..: 16:09		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8360

TOTAL Metals

Lot-Sample #...: H8F290110-003 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/27/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.040	mg/kg	SW846 7471A	07/14/98	CJEK010T
		Dilution Factor: 1		Analysis Time..: 14:27		
Prep Batch #...: 8197307						
Aluminum	**10900**	**24.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK0103**
		Dilution Factor: 1		Analysis Time..: 16:14		
Arsenic	**7.4**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJEK010N**
		Dilution Factor: 1		Analysis Time..: 19:35		
Lead	**11.6**	**0.37**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJEK010P**
		Dilution Factor: 1		Analysis Time..: 19:35		
Antimony	ND	7.3	mg/kg	SW846 6010A	07/17-07/18/98	CJEK0104
		Dilution Factor: 1		Analysis Time..: 16:14		
Barium	**55.4**	**24.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK0105**
		Dilution Factor: 1		Analysis Time..: 16:14		
Selenium	ND	0.61	mg/kg	SW846 6010A	07/17-07/20/98	CJEK010Q
		Dilution Factor: 1		Analysis Time..: 19:35		
Beryllium	**0.65**	**0.61**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK0106**
		Dilution Factor: 1		Analysis Time..: 16:14		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEK010R
		Dilution Factor: 1		Analysis Time..: 19:35		
Cadmium	ND	0.61	mg/kg	SW846 6010A	07/17-07/18/98	CJEK0107
		Dilution Factor: 1		Analysis Time..: 16:14		
Calcium	**25000**	**611**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK0108**
		Dilution Factor: 1		Analysis Time..: 16:14		
Chromium	**17.1**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK0109**
		Dilution Factor: 1		Analysis Time..: 16:14		
Cobalt	**13.8**	**6.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK010A**
		Dilution Factor: 1		Analysis Time..: 16:14		
Copper	**21.4**	**3.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK010C**
		Dilution Factor: 1		Analysis Time..: 16:14		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8360

TOTAL Metals

Lot-Sample #...: H8F290110-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	20700	12.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010D
		Dilution Factor: 1		Analysis Time..: 16:14		
Magnesium	5620	611	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010E
		Dilution Factor: 1		Analysis Time..: 16:14		
Manganese	472	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010F
		Dilution Factor: 1		Analysis Time..: 16:14		
Nickel	29.7	4.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010G
		Dilution Factor: 1		Analysis Time..: 16:14		
Potassium	2390	611	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010H
		Dilution Factor: 1		Analysis Time..: 16:14		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010J
		Dilution Factor: 1		Analysis Time..: 16:14		
Sodium	ND	611	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010K
		Dilution Factor: 1		Analysis Time..: 16:14		
Vanadium	24.2	6.1	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010L
		Dilution Factor: 1		Analysis Time..: 16:14		
Zinc	75.6	2.4	mg/kg	SW846 6010A	07/17-07/18/98	CJEK010M
		Dilution Factor: 1		Analysis Time..: 16:14		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

TOTAL Metals

Lot-Sample #...: H8F290110-004 Matrix.....: SOLID
Date Sampled...: 06/26/98 Date Received..: 06/27/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	0.045	0.038	mg/kg	SW846 7471A	07/14/98	CJEK710W
		Dilution Factor: 1		Analysis Time..: 14:29		
Prep Batch #...: 8197307						
Aluminum	12300	23.3	mg/kg	SW846 6010A	07/17-07/18/98	CJEK7106
		Dilution Factor: 1		Analysis Time..: 16:19		
Arsenic	5.2	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEK710R
		Dilution Factor: 1		Analysis Time..: 19:40		
Lead	11.0	0.35	mg/kg	SW846 6010A	07/17-07/20/98	CJEK710T
		Dilution Factor: 1		Analysis Time..: 19:40		
Antimony	ND	7.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEK7107
		Dilution Factor: 1		Analysis Time..: 16:19		
Barium	77.4	23.3	mg/kg	SW846 6010A	07/17-07/18/98	CJEK7108
		Dilution Factor: 1		Analysis Time..: 16:19		
Selenium	ND	0.58	mg/kg	SW846 6010A	07/17-07/20/98	CJEK710U
		Dilution Factor: 1		Analysis Time..: 19:40		
Beryllium	0.73	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJEK7109
		Dilution Factor: 1		Analysis Time..: 16:19		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEK710V
		Dilution Factor: 1		Analysis Time..: 19:40		
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJEK710A
		Dilution Factor: 1		Analysis Time..: 16:19		
Calcium	3260	583	mg/kg	SW846 6010A	07/17-07/18/98	CJEK710C
		Dilution Factor: 1		Analysis Time..: 16:19		
Chromium	15.7	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEK710D
		Dilution Factor: 1		Analysis Time..: 16:19		
Cobalt	15.7	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEK710E
		Dilution Factor: 1		Analysis Time..: 16:19		
Copper	16.5	2.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEK710F
		Dilution Factor: 1		Analysis Time..: 16:19		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8460

TOTAL Metals

Lot-Sample #...: H8F290110-004 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**20000**	**11.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK710G**
		Dilution Factor: 1		Analysis Time..: 16:19		
Magnesium	**2930**	**583**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK710H**
		Dilution Factor: 1		Analysis Time..: 16:19		
Manganese	**681**	**1.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK710J**
		Dilution Factor: 1		Analysis Time..: 16:19		
Nickel	**29.0**	**4.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK710K**
		Dilution Factor: 1		Analysis Time..: 16:19		
Potassium	**1600**	**583**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK710L**
		Dilution Factor: 1		Analysis Time..: 16:19		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEK710M
		Dilution Factor: 1		Analysis Time..: 16:19		
Sodium	ND	583	mg/kg	SW846 6010A	07/17-07/18/98	CJEK710N
		Dilution Factor: 1		Analysis Time..: 16:19		
Vanadium	**22.4**	**5.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK710P**
		Dilution Factor: 1		Analysis Time..: 16:19		
Zinc	**74.6**	**2.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEK710Q**
		Dilution Factor: 1		Analysis Time..: 16:19		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8470

TOTAL Metals

Lot-Sample #...: H8F290110-005 Matrix.....: SOLID
Date Sampled...: 06/26/98 Date Received..: 06/27/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.040	mg/kg	SW846 7471A	07/14/98	CJEKE10T
		Dilution Factor: 1		Analysis Time..: 14:32		
Prep Batch #...: 8197307						
Aluminum	12000	24.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE103
		Dilution Factor: 1		Analysis Time..: 16:24		
Arsenic	7.9	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEKE10N
		Dilution Factor: 1		Analysis Time..: 19:46		
Lead	11.5	0.36	mg/kg	SW846 6010A	07/17-07/20/98	CJEKE10P
		Dilution Factor: 1		Analysis Time..: 19:46		
Antimony	ND	7.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE104
		Dilution Factor: 1		Analysis Time..: 16:24		
Barium	80.3	24.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE105
		Dilution Factor: 1		Analysis Time..: 16:24		
Selenium	ND	0.60	mg/kg	SW846 6010A	07/17-07/20/98	CJEKE10Q
		Dilution Factor: 1		Analysis Time..: 19:46		
Beryllium	0.86	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE106
		Dilution Factor: 1		Analysis Time..: 16:24		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEKE10R
		Dilution Factor: 1		Analysis Time..: 19:46		
Cadmium	ND	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE107
		Dilution Factor: 1		Analysis Time..: 16:24		
Calcium	2130	600	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE108
		Dilution Factor: 1		Analysis Time..: 16:24		
Chromium	17.9	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE109
		Dilution Factor: 1		Analysis Time..: 16:24		
Cobalt	11.2	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10A
		Dilution Factor: 1		Analysis Time..: 16:24		
Copper	20.4	3.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10C
		Dilution Factor: 1		Analysis Time..: 16:24		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8470

TOTAL Metals

Lot-Sample #...: H8F290110-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	27000	12.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10D
		Dilution Factor: 1		Analysis Time..: 16:24		
Magnesium	2850	600	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10E
		Dilution Factor: 1		Analysis Time..: 16:24		
Manganese	243	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10F
		Dilution Factor: 1		Analysis Time..: 16:24		
Nickel	33.5	4.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10G
		Dilution Factor: 1		Analysis Time..: 16:24		
Potassium	1340	600	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10H
		Dilution Factor: 1		Analysis Time..: 16:24		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10J
		Dilution Factor: 1		Analysis Time..: 16:24		
Sodium	1270	600	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10K
		Dilution Factor: 1		Analysis Time..: 16:24		
Vanadium	24.6	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10L
		Dilution Factor: 1		Analysis Time..: 16:24		
Zinc	94.6	2.4	mg/kg	SW846 6010A	07/17-07/18/98	CJEKE10M
		Dilution Factor: 1		Analysis Time..: 16:24		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

TOTAL Metals

Lot-Sample #...: H8F290110-006 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/27/98
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/14/98	CJEKK10W
		Dilution Factor: 1		Analysis Time..: 14:34		
Prep Batch #...: 8197307						
Aluminum	11300	23.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK106
		Dilution Factor: 1		Analysis Time..: 16:29		
Arsenic	3.7	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEKK10R
		Dilution Factor: 1		Analysis Time..: 19:51		
Lead	9.1	0.36	mg/kg	SW846 6010A	07/17-07/20/98	CJEKK10T
		Dilution Factor: 1		Analysis Time..: 19:51		
Antimony	ND	7.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK107
		Dilution Factor: 1		Analysis Time..: 16:29		
Barium	72.9	23.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK108
		Dilution Factor: 1		Analysis Time..: 16:29		
Selenium	ND	0.60	mg/kg	SW846 6010A	07/17-07/20/98	CJEKK10U
		Dilution Factor: 1		Analysis Time..: 19:51		
Beryllium	0.64	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK109
		Dilution Factor: 1		Analysis Time..: 16:29		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEKK10V
		Dilution Factor: 1		Analysis Time..: 19:51		
Cadmium	ND	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10A
		Dilution Factor: 1		Analysis Time..: 16:29		
Calcium	2600	597	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10C
		Dilution Factor: 1		Analysis Time..: 16:29		
Chromium	15.8	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10D
		Dilution Factor: 1		Analysis Time..: 16:29		
Cobalt	11.5	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10E
		Dilution Factor: 1		Analysis Time..: 16:29		
Copper	12.3	3.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10F
		Dilution Factor: 1		Analysis Time..: 16:29		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8500

TOTAL Metals

Lot-Sample #...: H8F290110-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18700	11.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10G
		Dilution Factor: 1		Analysis Time..: 16:29		
Magnesium	3030	597	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10H
		Dilution Factor: 1		Analysis Time..: 16:29		
Manganese	375	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10J
		Dilution Factor: 1		Analysis Time..: 16:29		
Nickel	22.6	4.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10K
		Dilution Factor: 1		Analysis Time..: 16:29		
Potassium	1660	597	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10L
		Dilution Factor: 1		Analysis Time..: 16:29		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10M
		Dilution Factor: 1		Analysis Time..: 16:29		
Sodium	ND	597	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10N
		Dilution Factor: 1		Analysis Time..: 16:29		
Vanadium	21.1	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10P
		Dilution Factor: 1		Analysis Time..: 16:29		
Zinc	75.4	2.4	mg/kg	SW846 6010A	07/17-07/18/98	CJEKK10Q
		Dilution Factor: 1		Analysis Time..: 16:29		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8510

TOTAL Metals

Lot-Sample #...: H8F290110-007 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/27/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/14/98	CJEKT10T
		Dilution Factor: 1		Analysis Time..: 14:36		
Prep Batch #...: 8197307						
Aluminum	**5980**	**23.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT103**
		Dilution Factor: 1		Analysis Time..: 16:34		
Arsenic	**6.5**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJEKT10N**
		Dilution Factor: 1		Analysis Time..: 19:57		
Lead	**6.2**	**0.35**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJEKT10P**
		Dilution Factor: 1		Analysis Time..: 19:57		
Antimony	ND	7.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKT104
		Dilution Factor: 1		Analysis Time..: 16:34		
Barium	**35.5**	**23.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT105**
		Dilution Factor: 1		Analysis Time..: 16:34		
Selenium	ND	0.58	mg/kg	SW846 6010A	07/17-07/20/98	CJEKT10Q
		Dilution Factor: 1		Analysis Time..: 19:57		
Beryllium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJEKT106
		Dilution Factor: 1		Analysis Time..: 16:34		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEKT10R
		Dilution Factor: 1		Analysis Time..: 19:57		
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJEKT107
		Dilution Factor: 1		Analysis Time..: 16:34		
Calcium	**1570**	**584**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT108**
		Dilution Factor: 1		Analysis Time..: 16:34		
Chromium	**9.4**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT109**
		Dilution Factor: 1		Analysis Time..: 16:34		
Cobalt	**6.9**	**5.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10A**
		Dilution Factor: 1		Analysis Time..: 16:34		
Copper	**10.4**	**2.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10C**
		Dilution Factor: 1		Analysis Time..: 16:34		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8510

TOTAL Metals

Lot-Sample #...: H8F290110-007 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**16800**	**11.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10D**
		Dilution Factor: 1		Analysis Time..: 16:34		
Magnesium	**1580**	**584**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10E**
		Dilution Factor: 1		Analysis Time..: 16:34		
Manganese	**114**	**1.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10F**
		Dilution Factor: 1		Analysis Time..: 16:34		
Nickel	**16.6**	**4.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10G**
		Dilution Factor: 1		Analysis Time..: 16:34		
Potassium	**903**	**584**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10H**
		Dilution Factor: 1		Analysis Time..: 16:34		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKT10J
		Dilution Factor: 1		Analysis Time..: 16:34		
Sodium	ND	584	mg/kg	SW846 6010A	07/17-07/18/98	CJEKT10K
		Dilution Factor: 1		Analysis Time..: 16:34		
Vanadium	**13.9**	**5.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10L**
		Dilution Factor: 1		Analysis Time..: 16:34		
Zinc	**42.4**	**2.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJEKT10M**
		Dilution Factor: 1		Analysis Time..: 16:34		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8520

TOTAL Metals

Lot-Sample #...: H8F290110-008 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/27/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194282						
Mercury	ND	0.038	mg/kg	SW846 7471A	07/14/98	CJEKW10T
		Dilution Factor: 1		Analysis Time..: 14:39		
Prep Batch #...: 8197307						
Aluminum	11400	23.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW103
		Dilution Factor: 1		Analysis Time..: 16:39		
Arsenic	7.9	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEKW10N
		Dilution Factor: 1		Analysis Time..: 20:03		
Lead	8.2	0.35	mg/kg	SW846 6010A	07/17-07/20/98	CJEKW10P
		Dilution Factor: 1		Analysis Time..: 20:03		
Antimony	ND	7.0	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW104
		Dilution Factor: 1		Analysis Time..: 16:39		
Barium	51.5	23.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW105
		Dilution Factor: 1		Analysis Time..: 16:39		
Selenium	ND	0.58	mg/kg	SW846 6010A	07/17-07/20/98	CJEKW10Q
		Dilution Factor: 1		Analysis Time..: 20:03		
Beryllium	0.59	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW106
		Dilution Factor: 1		Analysis Time..: 16:39		
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJEKW10R
		Dilution Factor: 1		Analysis Time..: 20:03		
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW107
		Dilution Factor: 1		Analysis Time..: 16:39		
Calcium	51000	581	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW108
		Dilution Factor: 1		Analysis Time..: 16:39		
Chromium	16.8	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW109
		Dilution Factor: 1		Analysis Time..: 16:39		
Cobalt	10.1	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10A
		Dilution Factor: 1		Analysis Time..: 16:39		
Copper	24.3	2.9	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10C
		Dilution Factor: 1		Analysis Time..: 16:39		

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8520

TOTAL Metals

Lot-Sample #...: H8F290110-008 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	22500	11.6	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10D
		Dilution Factor: 1		Analysis Time..: 16:39		
Magnesium	11300	581	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10E
		Dilution Factor: 1		Analysis Time..: 16:39		
Manganese	392	1.7	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10F
		Dilution Factor: 1		Analysis Time..: 16:39		
Nickel	30.2	4.6	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10G
		Dilution Factor: 1		Analysis Time..: 16:39		
Potassium	3140	581	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10H
		Dilution Factor: 1		Analysis Time..: 16:39		
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10J
		Dilution Factor: 1		Analysis Time..: 16:39		
Sodium	ND	581	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10K
		Dilution Factor: 1		Analysis Time..: 16:39		
Vanadium	24.2	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10L
		Dilution Factor: 1		Analysis Time..: 16:39		
Zinc	58.9	2.3	mg/kg	SW846 6010A	07/17-07/18/98	CJEKW10M
		Dilution Factor: 1		Analysis Time..: 16:39		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB033 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G130000-282 Prep Batch #...: 8194282						
Mercury	ND	0.033	mg/kg	SW846 7471A	07/14/98	CJQ7X101
		Dilution Factor: 1				
		Analysis Time..: 13:40				
MB Lot-Sample #: H8G160000-307 Prep Batch #...: 8197307						
Aluminum	ND	20.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110L
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Arsenic	ND	1.0	mg/kg	SW846 6010A	07/17-07/20/98	CJV3110G
		Dilution Factor: 1				
		Analysis Time..: 17:38				
Antimony	ND	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110M
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Lead	ND	0.30	mg/kg	SW846 6010A	07/17-07/20/98	CJV3110H
		Dilution Factor: 1				
		Analysis Time..: 17:38				
Barium	ND	20.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110N
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Selenium	ND	0.50	mg/kg	SW846 6010A	07/17-07/20/98	CJV3110J
		Dilution Factor: 1				
		Analysis Time..: 17:38				
Beryllium	ND	0.50	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110P
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Thallium	ND	1.0	mg/kg	SW846 6010A	07/17-07/20/98	CJV3110K
		Dilution Factor: 1				
		Analysis Time..: 17:38				
Cadmium	ND	0.50	mg/kg	SW846 6010A	07/17-07/18/98	CJV31101
		Dilution Factor: 1				
		Analysis Time..: 13:54				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB033 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	ND	500	mg/kg	SW846 6010A	07/17-07/18/98	CJV31102
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Chromium	ND	1.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV31103
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Cobalt	ND	5.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV31104
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Copper	ND	2.5	mg/kg	SW846 6010A	07/17-07/18/98	CJV31105
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Iron	ND	10.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV31106
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Magnesium	ND	500	mg/kg	SW846 6010A	07/17-07/18/98	CJV31107
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Manganese	ND	1.5	mg/kg	SW846 6010A	07/17-07/18/98	CJV31108
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Nickel	ND	4.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV31109
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Potassium	ND	500	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110A
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Silver	ND	1.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110C
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Sodium	ND	500	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110D
		Dilution Factor: 1				
		Analysis Time..: 13:54				
Vanadium	ND	5.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110E
		Dilution Factor: 1				
		Analysis Time..: 13:54				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB033 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	2.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV3110F

Dilution Factor: 1

Analysis Time..: 13:54

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB033 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F240168-009 **Prep Batch #...:** 8194282							
Mercury	107	(55 - 130)			SW846 7471A	07/14/98	CJA0310X
	104	(55 - 130)	2.2	(0-20)	SW846 7471A	07/14/98	CJA03110
		Dilution Factor: 1					
		Analysis Time..: 14:10					
MS Lot-Sample #: H8F240168-009 **Prep Batch #...:** 8197307							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA03127
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJA03128
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Arsenic	80	(80 - 120)			SW846 6010A	07/17-07/20/98	CJA0311X
	82	(80 - 120)	2.7	(0-20)	SW846 6010A	07/17-07/20/98	CJA03120
		Dilution Factor: 1					
		Analysis Time..: 18:50					
Antimony	25 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA03129
	54 N,*	(80 - 120)	57	(0-20)	SW846 6010A	07/17-07/18/98	CJA0312A
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Lead	80	(80 - 120)			SW846 6010A	07/17-07/20/98	CJA03121
	82	(80 - 120)	1.3	(0-20)	SW846 6010A	07/17-07/20/98	CJA03122
		Dilution Factor: 1					
		Analysis Time..: 18:50					
Barium	100	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0312C
	100	(80 - 120)	0.07	(0-20)	SW846 6010A	07/17-07/18/98	CJA0312D
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Selenium	79 N	(80 - 120)			SW846 6010A	07/17-07/20/98	CJA03123
	82	(80 - 120)	4.2	(0-20)	SW846 6010A	07/17-07/20/98	CJA03124
		Dilution Factor: 1					
		Analysis Time..: 18:50					
Beryllium	98	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0312E
	102	(80 - 120)	3.7	(0-20)	SW846 6010A	07/17-07/18/98	CJA0312F
		Dilution Factor: 1					
		Analysis Time..: 15:34					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB033 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	76 N	(80 - 120)			SW846 6010A	07/17-07/20/98	CJA03125
	79 N	(80 - 120)	3.3	(0-20)	SW846 6010A	07/17-07/20/98	CJA03126
		Dilution Factor: 1					
		Analysis Time..: 18:50					
Cadmium	101	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA03111
	105	(80 - 120)	4.1	(0-20)	SW846 6010A	07/17-07/18/98	CJA03112
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Calcium	90	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA03113
	108	(80 - 120)	9.4	(0-20)	SW846 6010A	07/17-07/18/98	CJA03114
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Chromium	117	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA03115
	118	(80 - 120)	0.54	(0-20)	SW846 6010A	07/17-07/18/98	CJA03116
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Cobalt	88	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA03117
	93	(80 - 120)	4.3	(0-20)	SW846 6010A	07/17-07/18/98	CJA03118
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Copper	85	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA03119
	92	(80 - 120)	4.1	(0-20)	SW846 6010A	07/17-07/18/98	CJA0311A
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Iron	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311C
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJA0311D
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Magnesium	103	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311E
	109	(80 - 120)	3.5	(0-20)	SW846 6010A	07/17-07/18/98	CJA0311F
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Manganese	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJA0311H
		Dilution Factor: 1					
		Analysis Time..: 15:34					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB033 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/24/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	88	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311J
	93	(80 - 120)	4.0	(0-20)	SW846 6010A	07/17-07/18/98	CJA0311K
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Potassium	130 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311L
	121 N	(80 - 120)	5.0	(0-20)	SW846 6010A	07/17-07/18/98	CJA0311M
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Silver	88	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311N
	94	(80 - 120)	6.7	(0-20)	SW846 6010A	07/17-07/18/98	CJA0311P
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Sodium	99	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311Q
	101	(80 - 120)	2.2	(0-20)	SW846 6010A	07/17-07/18/98	CJA0311R
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Vanadium	108	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311T
	110	(80 - 120)	1.0	(0-20)	SW846 6010A	07/17-07/18/98	CJA0311U
		Dilution Factor: 1					
		Analysis Time..: 15:34					
Zinc	89	(80 - 120)			SW846 6010A	07/17-07/18/98	CJA0311V
	97	(80 - 120)	3.4	(0-20)	SW846 6010A	07/17-07/18/98	CJA0311W
		Dilution Factor: 1					
		Analysis Time..: 15:34					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB033 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8G130000-282 **Prep Batch #...:** 8194282					
Mercury	98	(80 - 120)	SW846 7471A Dilution Factor: 1 Analysis Time..: 13:42	07/14/98	CJQ7X102
LCS Lot-Sample#: H8G160000-307 **Prep Batch #...:** 8197307					
Cadmium	102	(80 - 113)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:59	07/17-07/18/98	CJV3110Q
Calcium	106	(84 - 117)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:59	07/17-07/18/98	CJV3110R
Chromium	106	(87 - 118)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:59	07/17-07/18/98	CJV3110T
Cobalt	102	(87 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:59	07/17-07/18/98	CJV3110U
Copper	100	(86 - 111)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:59	07/17-07/18/98	CJV3110V
Iron	102	(87 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:59	07/17-07/18/98	CJV3110W
Magnesium	104	(86 - 119)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:59	07/17-07/18/98	CJV3110X
Thallium	90	(83 - 110)	SW846 6010A Dilution Factor: 1 Analysis Time..: 17:44	07/17-07/20/98	CJV3111A
Aluminum	111	(89 - 119)	SW846 6010A Dilution Factor: 1 Analysis Time..: 13:59	07/17-07/18/98	CJV3111C

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB033 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	115	(86 - 119)	SW846 6010A	07/17-07/18/98	CJV3111D
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Barium	100	(88 - 110)	SW846 6010A	07/17-07/18/98	CJV3111E
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Beryllium	107	(80 - 118)	SW846 6010A	07/17-07/18/98	CJV3111F
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Manganese	100	(89 - 112)	SW846 6010A	07/17-07/18/98	CJV31110
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Nickel	101	(88 - 115)	SW846 6010A	07/17-07/18/98	CJV31111
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Potassium	103	(83 - 113)	SW846 6010A	07/17-07/18/98	CJV31112
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Silver	100	(80 - 117)	SW846 6010A	07/17-07/18/98	CJV31113
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Sodium	106	(85 - 115)	SW846 6010A	07/17-07/18/98	CJV31114
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Vanadium	101	(89 - 113)	SW846 6010A	07/17-07/18/98	CJV31115
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Zinc	99	(89 - 118)	SW846 6010A	07/17-07/18/98	CJV31116
		Dilution Factor: 1			
		Analysis Time..: 13:59			
Arsenic	94	(83 - 110)	SW846 6010A	07/17-07/20/98	CJV31117
		Dilution Factor: 1			
		Analysis Time..: 17:44			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB033 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	96	(84 - 110)	SW846 6010A	07/17-07/20/98	CJV31118
		Dilution Factor: 1			
		Analysis Time..: 17:44			
Selenium	90	(80 - 110)	SW846 6010A	07/17-07/20/98	CJV31119
		Dilution Factor: 1			
		Analysis Time..: 17:44			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB033

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	TOTAL	EXP
				8260A	8270B	8081	6010A	8330
1	6/24/98	H8F240168	7240R				X	X
2			8100				X	X
3			8110	X	X	X	X	X
4			8120				X	X
5			8140	X	X	X	X	X
6			8150				X	X
7			8160				X	X
8			8300	X	X	X	X	X
9			8310				X	X
10			8320				X	X
11	6/27/98	H8F290110	8340				X	X
12			8350	X	X	X	X	X
13			8360				X	X
14			8460	X	X	X	X	X
15			8470				X	X
16			8500	X	X	X	X	X
17			8510				X	X
18			8520				X	X
19								
20								
21								

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: SOIL
ANALYTICAL DUE: 7-17-98
REPORT DUE: 7-21-98
CLOSED?__YES__

7/1/98 9:33 AM

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: H8F240168

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?			✓
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6-24-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			

PROJECT MANAGER : [signature] DATE: 6/24/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
ALL		2a/2b	TEMP BLANK FROZEN
			* Process as rec'd/cooler
			temp ok.

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/24/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = Temp Blank Frozen
	2b Cooler Temp = 2°c
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: ~~RSA~~ PBOW Lot No.: HBF 28168

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?			✓
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/24/98

QA016R7.doc, 01/29/98

Quote #23581

H8F240168

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062398QESK

Project Number: 773701

Samples Shipment Date: 23-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850097

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/23/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) R Woolcock QES Date: 6-24-98 Time: 0945

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7240R	PBOW-98-SO-PRRP-DP02-7240-(0001	22-JUN-98	14:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		Rec'd w/ custody seals intact @ 2°C KAW 6-24-98
7240R	PBOW-98-SO-PRRP-DP02-7240-(0001	22-JUN-98	14:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8100	PBOW-98-SO-WARP-DP01-8100-(000	23-JUN-98	10:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8100	PBOW-98-SO-WARP-DP01-8100-(000	23-JUN-98	10:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8110	PBOW-98-SO-WARP-DP01-8110-(040	23-JUN-98	10:55	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8110	PBOW-98-SO-WARP-DP01-8110-(040	23-JUN-98	10:55	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8110	PBOW-98-SO-WARP-DP01-8110-(040	23-JUN-98	10:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8110	PBOW-98-SO-WARP-DP01-8110-(040	23-JUN-98	10:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

H8F240168

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062398QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8120	PBOW-98-SO-WARP-DP01-8120-(091	23-JUN-98	11:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8120	PBOW-98-SO-WARP-DP01-8120-(091	23-JUN-98	11:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8140	PBOW-98-SO-WARP-DP02-8140-(000	23-JUN-98	11:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8140	PBOW-98-SO-WARP-DP02-8140-(000	23-JUN-98	11:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8140	PBOW-98-SO-WARP-DP02-8140-(000	23-JUN-98	11:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8140	PBOW-98-SO-WARP-DP02-8140-(000	23-JUN-98	11:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8150	PBOW-98-SO-WARP-DP02-8150-(040	23-JUN-98	11:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8150	PBOW-98-SO-WARP-DP02-8150-(040	23-JUN-98	11:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8160	PBOW-98-SO-WARP-DP02-8160-(091	23-JUN-98	12:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8160	PBOW-98-SO-WARP-DP02-8160-(091	23-JUN-98	12:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8300	PBOW-98-SO-WARP-DP06-8300-(000	23-JUN-98	09:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8300	PBOW-98-SO-WARP-DP06-8300-(000	23-JUN-98	09:15	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8300	PBOW-98-SO-WARP-DP06-8300-(000	23-JUN-98	09:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8300	PBOW-98-SO-WARP-DP06-8300-(000	23-JUN-98	09:15	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8310	PBOW-98-SO-WARP-DP06-8310-(040	23-JUN-98	09:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8310	PBOW-98-SO-WARP-DP06-8310-(040	23-JUN-98	09:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8320	PBOW-98-SO-WARP-DP06-8320-(091	23-JUN-98	09:25	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8320	PBOW-98-SO-WARP-DP06-8320-(091	23-JUN-98	09:25	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: HFF290110

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?			✓
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?			✓
i. Did you check for residual chlorine, if necessary?	✓		
j. Were samples received within 1/2 of the (QAMP) holding time?			✓
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: Bryant Dawson DATE: 6-27-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/26/98 (per faxed RFA)

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T. KNX PROJECT: PBOW Lot No.: L8F290110

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a cohtract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?			
c. If SDG is complete, has the due date been revised & marked closed?	✓		
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/30/98

QA016R7.doc, 01/29/98

H8F290110

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062698QESK

Project Number: 773701

Samples Shipment Date: 26-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850123

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) — Date: 6/26/98 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Received By (Signature/Affiliation) — Date: 6-27-98 Time: 09:30
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Custody seals intact
received at 3°C
BKD 6-27-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8340	PBOW-98-SO-WARP-DP07-8340-(000	25-JUN-98	15:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8340	PBOW-98-SO-WARP-DP07-8340-(000	25-JUN-98	15:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8350	PBOW-98-SO-WARP-DP07-8350-(040	25-JUN-98	15:50	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8350	PBOW-98-SO-WARP-DP07-8350-(040	25-JUN-98	15:50	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8350	PBOW-98-SO-WARP-DP07-8350-(040	25-JUN-98	15:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8350	PBOW-98-SO-WARP-DP07-8350-(040	25-JUN-98	15:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8360	PBOW-98-SO-WARP-DP07-8360-(091	25-JUN-98	15:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8360	PBOW-98-SO-WARP-DP07-8360-(091	25-JUN-98	15:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F290110

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062698QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8370	PBOW-98-GW-WARP-DP07-8370	26-JUN-98	14:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8370	PBOW-98-GW-WARP-DP07-8370	26-JUN-98	14:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8370	PBOW-98-GW-WARP-DP07-8370	26-JUN-98	14:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
8370	PBOW-98-GW-WARP-DP07-8370	26-JUN-98	14:00	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8460 /	PBOW-98-SO-WARP-DP10-8460-(000	26-JUN-98	10:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8460 /	PBOW-98-SO-WARP-DP10-8460-(000	26-JUN-98	10:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8460 /	PBOW-98-SO-WARP-DP10-8460-(000	26-JUN-98	10:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8460 /	PBOW-98-SO-WARP-DP10-8460-(000	26-JUN-98	10:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8470 /	PBOW-98-SO-WARP-DP10-8470-(040	26-JUN-98	10:40	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8470 /	PBOW-98-SO-WARP-DP10-8470-(040	26-JUN-98	10:40	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8500 /	PBOW-98-SO-WARP-DP11-8500-(000	25-JUN-98	16:20	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8500 /	PBOW-98-SO-WARP-DP11-8500-(000	25-JUN-98	16:20	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8500 /	PBOW-98-SO-WARP-DP11-8500-(000	25-JUN-98	16:20	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8500 /	PBOW-98-SO-WARP-DP11-8500-(000	25-JUN-98	16:20	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8510 /	PBOW-98-SO-WARP-DP11-8510-(040	25-JUN-98	16:25	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8510 /	PBOW-98-SO-WARP-DP11-8510-(040	25-JUN-98	16:25	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8520 /	PBOW-98-SO-WARP-DP11-8520-(091	25-JUN-98	16:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8520 /	PBOW-98-SO-WARP-DP11-8520-(091	25-JUN-98	16:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8530	PBOW-98-GW-WARP-DP11-8530	26-JUN-98	14:30	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
8530	PBOW-98-GW-WARP-DP11-8530	26-JUN-98	14:30	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8530	PBOW-98-GW-WARP-DP11-8530	26-JUN-98	14:30	1 L Amb. Glass	1 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8530	PBOW-98-GW-WARP-DP11-8530	26-JUN-98	14:30	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8690	PBOW-98-GW-WARP-DP15-8690	26-JUN-98	09:30	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8690	PBOW-98-GW-WARP-DP15-8690	26-JUN-98	09:30	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8850	PBOW-98-GW-WARP-DP19-8850	26-JUN-98	10:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8850	PBOW-98-GW-WARP-DP19-8850	26-JUN-98	10:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
9038		26-JUN-98	11:00	40 ml GVIAL,SEP	3 HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

Quanterra Environmental Services

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ANALYTICAL REPORT

PROJECT NO. 773701

PBOW-Red Water Ponds
SDG #: PB034

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

August 5, 1998

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB034

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F250216-001		06/25/98	8170
H8F250216-001	D	06/25/98	8170
H8F250216-001	S	06/25/98	8170
H8F250216-002		06/25/98	8250
H8F250216-003		06/25/98	8251
H8F250216-004		06/25/98	8330
H8F250216-005		06/25/98	9035
H8F250216-006		06/25/98	8170
H8F250216-006	D	06/25/98	8170
H8F250216-006	S	06/25/98	8170
H8F260206-001		06/26/98	8130
H8F260206-002		06/26/98	8250B
H8F260206-003		06/26/98	8730
H8F260206-004		06/26/98	8770
H8F260206-005		06/26/98	9037
H8F260206-006		06/26/98	7630R
H8F260206-007		06/26/98	8250B
H8F260206-008		06/26/98	8730
H8F260206-009		06/26/98	8770
H8F290000-180	L	06/25/98	DUPLICATE CHECK
H8F290101-001		06/27/98	8370
H8F290101-002		06/27/98	8530
H8F290101-003		06/27/98	8690
H8F290101-004		06/27/98	8850
H8F290101-005		06/27/98	9038
H8F290101-006		06/27/98	8370
H8F290101-007		06/27/98	8530
H8F290120-001		06/29/98	9039
H8G010000-225	L	06/26/98	DUPLICATE CHECK
H8G010000-305	L	06/30/98	DUPLICATE CHECK
H8G170000-140	L	07/15/98	DUPLICATE CHECK

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SAMPLE SUMMARY

PB034 : H8F250216

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJCEW	001	8170	06/24/98	12:00
CJCEX	002	8250	06/24/98	15:00
CJCF0	003	8251	06/24/98	15:00
CJCF1	004	8330	06/23/98	16:00
CJCF2	005	9035	06/24/98	10:00
CJCF3	006	8170	06/24/98	12:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
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SAMPLE SUMMARY

PB034 : H8F260206

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJDHR	001	8130	06/25/98	11:00
CJDHV	002	8250B	06/25/98	12:00
CJDHX	003	8730	06/25/98	14:00
CJDJ1	004	8770	06/25/98	13:00
CJDJ4	005	9037	06/25/98	11:00
CJDJ5	006	7630R	06/25/98	15:00
CJDJ6	007	8250B	06/25/98	12:00
CJDJ8	008	8730	06/25/98	14:00
CJDJ9	009	8770	06/25/98	13:00

NOTE(S):

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Quanterra
Environmental Services

SAMPLE SUMMARY

PB034 : H8F290101

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJEEC	001	8370	06/26/98	14:00
CJEEJ	002	8530	06/26/98	14:30
CJEEL	003	8690	06/26/98	09:30
CJEET	004	8850	06/26/98	10:00
CJEF9	005	9038	06/26/98	11:00
CJEFA	006	8370	06/26/98	14:00
CJEFC	007	8530	06/26/98	14:30

NOTE(S):

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(Continued on next page)

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SAMPLE SUMMARY

PB034 : H8F290120

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJENX	001	9039	06/26/98	17:00

NOTE(S):

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- Results noted as "ND" were not detected at or above the stated limit.
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ANALYTICAL METHODS SUMMARY

PB034

PARAMETER	ANALYTICAL METHOD
Dissolved ICP Metals	SW846 6010A
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides and PCBs	SW846 8081
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Volatiles

The pH of samples 8530, 8730, 8170 and 8770 were greater than 2. The sample was analyzed within the normal 14 day holding time. EPA has indicated that some aromatic compounds in wastewater samples, notably benzene, toluene, and ethyl benzene, may be susceptible to biological degradation if samples are not preserved to a pH of 2.

Semivolatiles

Surrogate recoveries for sample 8730 were outside control limits. However, re-extraction and re-analysis was not possible due to insufficient sample. The data are reported.

Surrogate recoveries for sample 8770 were outside control limits and a re-extraction and re-analysis was performed outside of the holding time. The results for the re-extraction indicated that the original recoveries were wrong; both sets of data are presented for compliance purposes.

Explosives

The matrix spike/matrix spike duplicate recoveries and RPDs for sample 8170 were not calculated because the spikes were diluted out. The laboratory control sample showed acceptable results indicating that the analysis was in control. Results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level.

Metals

The matrix spike/matrix spike duplicate recoveries and/or RPDs for sample 8170 (total and dissolved) were outside control limits for some analytes. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

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Quanterra Environmental Services

PROJECT NARRATIVE

Metals continued

The matrix spike duplicate for sample 8170 (dissolved) was double-spiked in error. The recovery and RPD were in control limits.

Several samples were diluted due to high calcium and sodium concentrations.

COMMENTS:

All sample receipt variances are listed on the enclosed condition upon receipt anomaly checklist.

Semivolatiles

Internal standard recoveries for sample 8770-RE were outside control limits due to hydrogen-deuterium exchange. However, the original analysis of the sample showed good recoveries indicating that the problem was confined to the preparation procedure. Both sets of data are reported.

Samples 8770 and 8730 were reported with elevated reporting limits for all analytes due to the difficult sample matrices. Dilutions were necessary prior to analysis, and the reporting limits were adjusted accordingly.

Explosives

Samples 8130, 8250, 8251, 8370 and 8170 were reported with elevated reporting limits for all analytes due to the difficult sample matrix. The lowest dilutions that could be analyzed were performed; the reporting limits were adjusted accordingly.

Sample 8690 and 8850 were reported with elevated reporting limits for 3-nitrotoluene due to sample matrix interferences.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8170

GC/MS Volatiles

Lot-Sample #...: H8F250216-001 **Work Order #...:** CJCEW101 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183120
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**3.0 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.30 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.15 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.43 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(67 - 130)
1,2-Dichloroethane-d4	93	(67 - 130)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	99	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8170

GC/MS Volatiles

Lot-Sample #...: H8F250216-001 **Work Order #...:** CJCEW101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8250

GC/MS Volatiles

Lot-Sample #...: H8F250216-002 **Work Order #...:** CJCEX101 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183120
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(67 - 130)
1,2-Dichloroethane-d4	93	(67 - 130)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	100	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8250

GC/MS Volatiles

Lot-Sample #...: H8F250216-002 **Work Order #...:** CJCEX101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8251

GC/MS Volatiles

Lot-Sample #...: H8F250216-003 **Work Order #...:** CJCF0101 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183120
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.14 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(67 - 130)
1,2-Dichloroethane-d4	93	(67 - 130)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	98	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8251

GC/MS Volatiles

Lot-Sample #...: H8F250216-003 **Work Order #...:** CJCF0101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8330

GC/MS Volatiles

Lot-Sample #...: H8F250216-004 **Work Order #...:** CJCF1101 **Matrix.....:** WATER
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183120
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(67 - 130)
1,2-Dichloroethane-d4	93	(67 - 130)
Toluene-d8	95	(70 - 130)
4-Bromofluorobenzene	99	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8330

GC/MS Volatiles

Lot-Sample #...: H8F250216-004 **Work Order #...:** CJCF1101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9035

GC/MS Volatiles

Lot-Sample #...: H8F250216-005 **Work Order #...:** CJCF2101 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183120
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.8 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.59 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.16 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.30 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(67 - 130)
1,2-Dichloroethane-d4	95	(67 - 130)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	97	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 9035

GC/MS Volatiles

Lot-Sample #...: H8F250216-005 **Work Order #...:** CJCF2101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8130

GC/MS Volatiles

Lot-Sample #...: H8F260206-001 **Work Order #...:** CJDHR101 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8189131
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**4.3 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(67 - 130)
1,2-Dichloroethane-d4	93	(67 - 130)
Toluene-d8	96	(70 - 130)
4-Bromofluorobenzene	97	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8130

GC/MS Volatiles

Lot-Sample #...: H8F260206-001 **Work Order #...:** CJDHR101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

GC/MS Volatiles

Lot-Sample #...: H8F260206-003 **Work Order #...:** CJDHX101 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8189131
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.6 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.26 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(67 - 130)
1,2-Dichloroethane-d4	96	(67 - 130)
Toluene-d8	95	(70 - 130)
4-Bromofluorobenzene	96	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

GC/MS Volatiles

Lot-Sample #...: H8F260206-003 **Work Order #...:** CJDHX101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

GC/MS Volatiles

Lot-Sample #...: H8F260206-004 **Work Order #...:** CJDJ1101 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8189131
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.6 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.16 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(67 - 130)
1,2-Dichloroethane-d4	94	(67 - 130)
Toluene-d8	96	(70 - 130)
4-Bromofluorobenzene	99	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

GC/MS Volatiles

Lot-Sample #...: H8F260206-004 **Work Order #...:** CJDJ1101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9037

GC/MS Volatiles

Lot-Sample #...: H8F260206-005 **Work Order #...:** CJDJ4101 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8189131
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.3 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.49 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.37 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.23 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(67 - 130)
1,2-Dichloroethane-d4	90	(67 - 130)
Toluene-d8	97	(70 - 130)
4-Bromofluorobenzene	98	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 9037

GC/MS Volatiles

Lot-Sample #...: H8F260206-005 **Work Order #...:** CJDJ4101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8370

GC/MS Volatiles

Lot-Sample #...: H8F290101-001 **Work Order #...:** CJEEC101 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8182274
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**7.2 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.34 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(67 - 130)
1,2-Dichloroethane-d4	100	(67 - 130)
Toluene-d8	92	(70 - 130)
4-Bromofluorobenzene	95	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8370

GC/MS Volatiles

Lot-Sample #...: H8F290101-001 **Work Order #...:** CJEEC101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

GC/MS Volatiles

Lot-Sample #...: H8F290101-002 **Work Order #...:** CJEEJ101 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8182274
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**4.9 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.16 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.13 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.57 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(67 - 130)
1,2-Dichloroethane-d4	98	(67 - 130)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	94	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

GC/MS Volatiles

Lot-Sample #...: H8F290101-002 **Work Order #...:** CJEEJ101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8690

GC/MS Volatiles

Lot-Sample #...: H8F290101-003 **Work Order #...:** CJEEL101 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8182274
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**9.6 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	**1.2 J**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.15 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(67 - 130)
1,2-Dichloroethane-d4	97	(67 - 130)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	97	(70 - 130)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8690

GC/MS Volatiles

Lot-Sample #...: H8F290101-003 **Work Order #...:** CJEEL101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8850

GC/MS Volatiles

Lot-Sample #...:	H8F290101-004	**Work Order #...:**	CJEET101	**Matrix.....:**	WATER
Date Sampled...:	06/26/98	**Date Received..:**	06/27/98		
Prep Date.....:	07/01/98	**Analysis Date..:**	07/02/98		
Prep Batch #...:	8182274				
Dilution Factor:	1	**Method.....:**	SW846 8260A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**10**	**10**	**ug/L**
Carbon disulfide	**0.18 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	**1.8 J**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(67 - 130)
1,2-Dichloroethane-d4	97	(67 - 130)
Toluene-d8	93	(70 - 130)
4-Bromofluorobenzene	97	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8850

GC/MS Volatiles

Lot-Sample #...: H8F290101-004 **Work Order #...:** CJEET101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9038

GC/MS Volatiles

Lot-Sample #...: H8F290101-005 **Work Order #...:** CJEF9101 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8182274
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.48 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.16 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.42 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.26 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(67 - 130)
1,2-Dichloroethane-d4	97	(67 - 130)
Toluene-d8	93	(70 - 130)
4-Bromofluorobenzene	96	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 9038

GC/MS Volatiles

Lot-Sample #...: H8F290101-005 **Work Order #...:** CJEF9101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9039

GC/MS Volatiles

Lot-Sample #...: H8F290120-001 **Work Order #...:** CJENX101 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/29/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8189131
Dilution Factor: 1 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.9 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	**0.41 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.34 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.24 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(67 - 130)
1,2-Dichloroethane-d4	89	(67 - 130)
Toluene-d8	97	(70 - 130)
4-Bromofluorobenzene	99	(70 - 130)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 9039

GC/MS Volatiles

Lot-Sample #...: H8F290120-001 **Work Order #...:** CJENX101 **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJGJW101 **Matrix.....:** WATER
MB Lot-Sample #: H8G010000-274

Prep Date.....: 07/01/98
Analysis Date..: 07/01/98 **Prep Batch #...:** 8182274
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**0.37 J**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(67 - 130)
1,2-Dichloroethane-d4	95	(67 - 130)
Toluene-d8	94	(70 - 130)
4-Bromofluorobenzene	95	(70 - 130)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJGJW101 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJGJW102 **Matrix.....:** WATER
LCS Lot-Sample#: H8G010000-274
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182274
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**100**	**(70 - 137)**	**SW846 8260A**
Benzene	**109**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**102**	**(70 - 130)**	**SW846 8260A**
Toluene	**106**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**104**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(67 - 130)
1,2-Dichloroethane-d4	95	(67 - 130)
Toluene-d8	96	(70 - 130)
4-Bromofluorobenzene	88	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJH48101 **Matrix.....:** WATER
MB Lot-Sample #: H8G020000-120

Prep Date.....: 07/02/98
Analysis Date..: 07/02/98 **Prep Batch #...:** 8183120
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	ND	1.0	ug/L	SW846 8260A
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(67 - 130)
1,2-Dichloroethane-d4	95	(67 - 130)
Toluene-d8	95	(70 - 130)
4-Bromofluorobenzene	98	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJCEW102-MS **Matrix.....:** WATER
MS Lot-Sample #: H8F250216-001 CJCEW103-MSD
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183120
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**99**	**(70 - 137)**			**SW846 8260A**
	98	**(70 - 137)**	**1.2**	**(0-20)**	**SW846 8260A**
Trichloroethene	**99**	**(70 - 130)**			**SW846 8260A**
	97	**(70 - 130)**	**2.0**	**(0-20)**	**SW846 8260A**
Benzene	**109**	**(70 - 130)**			**SW846 8260A**
	107	**(70 - 130)**	**2.0**	**(0-20)**	**SW846 8260A**
Toluene	**108**	**(70 - 130)**			**SW846 8260A**
	107	**(70 - 130)**	**0.94**	**(0-20)**	**SW846 8260A**
Chlorobenzene	**103**	**(70 - 130)**			**SW846 8260A**
	101	**(70 - 130)**	**1.6**	**(0-20)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(67 - 130)
	94	(67 - 130)
1,2-Dichloroethane-d4	94	(67 - 130)
	92	(67 - 130)
Toluene-d8	95	(70 - 130)
	95	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJH48102 **Matrix.....:** WATER
LCS Lot-Sample#: H8G020000-120
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183120
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**101**	**(70 - 137)**	**SW846 8260A**
Benzene	**110**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**103**	**(70 - 130)**	**SW846 8260A**
Toluene	**106**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**104**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(67 - 130)
1,2-Dichloroethane-d4	95	(67 - 130)
Toluene-d8	95	(70 - 130)
4-Bromofluorobenzene	86	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJKXM103 **Matrix.....:** WATER
MB Lot-Sample #: H8G080000-131

Prep Date.....: 07/08/98
Analysis Date..: 07/08/98 **Prep Batch #...:** 8189131
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260A
Bromomethane	ND	2.0	ug/L	SW846 8260A
Vinyl chloride	ND	2.0	ug/L	SW846 8260A
Chloroethane	ND	2.0	ug/L	SW846 8260A
Methylene chloride	**0.33 J**	**1.0**	**ug/L**	**SW846 8260A**
Acetone	ND	10	ug/L	SW846 8260A
Carbon disulfide	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260A
Chloroform	ND	1.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260A
2-Butanone	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260A
Bromodichloromethane	ND	1.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Trichloroethene	ND	1.0	ug/L	SW846 8260A
Dibromochloromethane	ND	1.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260A
Benzene	ND	1.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260A
Bromoform	ND	1.0	ug/L	SW846 8260A
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260A
2-Hexanone	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	1.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260A
Toluene	ND	1.0	ug/L	SW846 8260A
Chlorobenzene	ND	1.0	ug/L	SW846 8260A
Ethylbenzene	ND	1.0	ug/L	SW846 8260A
Styrene	ND	1.0	ug/L	SW846 8260A
Xylenes (total)	ND	1.0	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(67 - 130)
1,2-Dichloroethane-d4	90	(67 - 130)
Toluene-d8	97	(70 - 130)
4-Bromofluorobenzene	96	(70 - 130)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJKXM103 **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB034 **Work Order #...:** CJKXM102 **Matrix.....:** WATER
LCS Lot-Sample#: H8G080000-131
Prep Date.....: 07/08/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8189131
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**97**	**(70 - 137)**	**SW846 8260A**
Benzene	**101**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**97**	**(70 - 130)**	**SW846 8260A**
Toluene	**102**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**99**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(67 - 130)
1,2-Dichloroethane-d4	91	(67 - 130)
Toluene-d8	96	(70 - 130)
4-Bromofluorobenzene	89	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8250B

GC/MS Semivolatiles

Lot-Sample #...: H8F260206-002 **Work Order #...:** CJDHV101 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/29/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8180180
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	**3.2 J**	**50**	**ug/L**
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8250B

GC/MS Semivolatiles

Lot-Sample #...: H8F260206-002 **Work Order #...:** CJDHV101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**5.1 J,B**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	44	(27 - 106)
Phenol-d5	56	(27 - 111)
Nitrobenzene-d5	56	(37 - 115)
2-Fluorobiphenyl	50	(43 - 116)
2,4,6-Tribromophenol	60	(27 - 127)
Terphenyl-d14	70	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

GC/MS Semivolatiles

Lot-Sample #...: H8F260206-003 **Work Order #...:** CJDHX102 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/29/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8180180
Dilution Factor: 10 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	100	ug/L
bis(2-Chloroethyl) ether	ND	100	ug/L
2-Chlorophenol	ND	100	ug/L
1,3-Dichlorobenzene	ND	100	ug/L
1,4-Dichlorobenzene	ND	100	ug/L
1,2-Dichlorobenzene	ND	100	ug/L
2-Methylphenol	ND	100	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	100	ug/L
4-Methylphenol	ND	100	ug/L
N-Nitrosodi-n-propylamine	ND	100	ug/L
Hexachloroethane	ND	100	ug/L
Nitrobenzene	ND	100	ug/L
Isophorone	ND	100	ug/L
2-Nitrophenol	ND	100	ug/L
2,4-Dimethylphenol	ND	100	ug/L
bis(2-Chloroethoxy) methane	ND	100	ug/L
2,4-Dichlorophenol	ND	100	ug/L
1,2,4-Trichlorobenzene	ND	100	ug/L
Naphthalene	ND	100	ug/L
4-Chloroaniline	ND	100	ug/L
Hexachlorobutadiene	ND	100	ug/L
4-Chloro-3-methylphenol	ND	100	ug/L
2-Methylnaphthalene	ND	100	ug/L
Hexachlorocyclopentadiene	ND	500	ug/L
2,4,6-Trichlorophenol	ND	100	ug/L
2,4,5-Trichlorophenol	ND	100	ug/L
2-Chloronaphthalene	ND	100	ug/L
2-Nitroaniline	ND	500	ug/L
Dimethyl phthalate	ND	100	ug/L
Acenaphthylene	ND	100	ug/L
2,6-Dinitrotoluene	**15 J**	**100**	**ug/L**
3-Nitroaniline	**43 J**	**500**	**ug/L**
Acenaphthene	ND	100	ug/L
2,4-Dinitrophenol	ND	500	ug/L
4-Nitrophenol	ND	500	ug/L
Dibenzofuran	ND	100	ug/L
2,4-Dinitrotoluene	**60 J**	**100**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

GC/MS Semivolatiles

Lot-Sample #...: H8F260206-003 **Work Order #...:** CJDHX102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	100	ug/L
4-Chlorophenyl phenyl ether	ND	100	ug/L
Fluorene	ND	100	ug/L
4-Nitroaniline	ND	500	ug/L
4,6-Dinitro-2-methylphenol	ND	500	ug/L
N-Nitrosodiphenylamine	ND	100	ug/L
4-Bromophenyl phenyl ether	ND	100	ug/L
Hexachlorobenzene	ND	100	ug/L
Pentachlorophenol	ND	500	ug/L
Phenanthrene	ND	100	ug/L
Anthracene	ND	100	ug/L
Carbazole	ND	100	ug/L
Di-n-butyl phthalate	ND	100	ug/L
Fluoranthene	ND	100	ug/L
Pyrene	ND	100	ug/L
Butyl benzyl phthalate	ND	100	ug/L
3,3'-Dichlorobenzidine	ND	500	ug/L
Benzo(a)anthracene	ND	100	ug/L
Chrysene	ND	100	ug/L
bis(2-Ethylhexyl) phthalate	ND	100	ug/L
Di-n-octyl phthalate	ND	100	ug/L
Benzo(b)fluoranthene	ND	100	ug/L
Benzo(k)fluoranthene	ND	100	ug/L
Benzo(a)pyrene	ND	100	ug/L
Indeno(1,2,3-cd)pyrene	ND	100	ug/L
Dibenz(a,h)anthracene	ND	100	ug/L
Benzo(ghi)perylene	ND	100	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

GC/MS Semivolatiles

Lot-Sample #...: H8F260206-004 **Work Order #...:** CJDJ1102 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/29/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8180180
Dilution Factor: 10 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	100	ug/L
bis(2-Chloroethyl) ether	ND	100	ug/L
2-Chlorophenol	ND	100	ug/L
1,3-Dichlorobenzene	ND	100	ug/L
1,4-Dichlorobenzene	ND	100	ug/L
1,2-Dichlorobenzene	ND	100	ug/L
2-Methylphenol	ND	100	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	100	ug/L
4-Methylphenol	ND	100	ug/L
N-Nitrosodi-n-propylamine	ND	100	ug/L
Hexachloroethane	ND	100	ug/L
Nitrobenzene	ND	100	ug/L
Isophorone	ND	100	ug/L
2-Nitrophenol	ND	100	ug/L
2,4-Dimethylphenol	ND	100	ug/L
bis(2-Chloroethoxy) methane	ND	100	ug/L
2,4-Dichlorophenol	ND	100	ug/L
1,2,4-Trichlorobenzene	ND	100	ug/L
Naphthalene	ND	100	ug/L
4-Chloroaniline	ND	100	ug/L
Hexachlorobutadiene	ND	100	ug/L
4-Chloro-3-methylphenol	ND	100	ug/L
2-Methylnaphthalene	ND	100	ug/L
Hexachlorocyclopentadiene	ND	500	ug/L
2,4,6-Trichlorophenol	ND	100	ug/L
2,4,5-Trichlorophenol	ND	100	ug/L
2-Chloronaphthalene	ND	100	ug/L
2-Nitroaniline	ND	500	ug/L
Dimethyl phthalate	ND	100	ug/L
Acenaphthylene	ND	100	ug/L
2,6-Dinitrotoluene	**18 J**	**100**	**ug/L**
3-Nitroaniline	**49 J**	**500**	**ug/L**
Acenaphthene	ND	100	ug/L
2,4-Dinitrophenol	ND	500	ug/L
4-Nitrophenol	ND	500	ug/L
Dibenzofuran	ND	100	ug/L
2,4-Dinitrotoluene	**52 J**	**100**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

GC/MS Semivolatiles

Lot-Sample #...: H8F260206-004 **Work Order #...:** CJDJ1102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	100	ug/L
4-Chlorophenyl phenyl ether	ND	100	ug/L
Fluorene	ND	100	ug/L
4-Nitroaniline	ND	500	ug/L
4,6-Dinitro-2-methylphenol	ND	500	ug/L
N-Nitrosodiphenylamine	ND	100	ug/L
4-Bromophenyl phenyl ether	ND	100	ug/L
Hexachlorobenzene	ND	100	ug/L
Pentachlorophenol	ND	500	ug/L
Phenanthrene	ND	100	ug/L
Anthracene	ND	100	ug/L
Carbazole	ND	100	ug/L
Di-n-butyl phthalate	ND	100	ug/L
Fluoranthene	ND	100	ug/L
Pyrene	ND	100	ug/L
Butyl benzyl phthalate	ND	100	ug/L
3,3'-Dichlorobenzidine	ND	500	ug/L
Benzo(a)anthracene	ND	100	ug/L
Chrysene	ND	100	ug/L
bis(2-Ethylhexyl) phthalate	ND	100	ug/L
Di-n-octyl phthalate	ND	100	ug/L
Benzo(b)fluoranthene	ND	100	ug/L
Benzo(k)fluoranthene	ND	100	ug/L
Benzo(a)pyrene	ND	100	ug/L
Indeno(1,2,3-cd)pyrene	ND	100	ug/L
Dibenz(a,h)anthracene	ND	100	ug/L
Benzo(ghi)perylene	ND	100	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

GC/MS Semivolatiles

Lot-Sample #...: H8F260206-004 **Work Order #...:** CJDJ1202 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/17/98 **Analysis Date..:** 07/20/98
Prep Batch #...: 8198140
Dilution Factor: 10 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	150	ug/L
bis(2-Chloroethyl) ether	ND	150	ug/L
2-Chlorophenol	ND	150	ug/L
1,3-Dichlorobenzene	ND	150	ug/L
1,4-Dichlorobenzene	ND	150	ug/L
1,2-Dichlorobenzene	ND	150	ug/L
2-Methylphenol	ND	150	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	150	ug/L
4-Methylphenol	ND	150	ug/L
N-Nitrosodi-n-propylamine	ND	150	ug/L
Hexachloroethane	ND	150	ug/L
Nitrobenzene	ND	150	ug/L
Isophorone	ND	150	ug/L
2-Nitrophenol	ND	150	ug/L
2,4-Dimethylphenol	ND	150	ug/L
bis(2-Chloroethoxy) methane	ND	150	ug/L
2,4-Dichlorophenol	ND	150	ug/L
1,2,4-Trichlorobenzene	ND	150	ug/L
Naphthalene	ND	150	ug/L
4-Chloroaniline	ND	150	ug/L
Hexachlorobutadiene	ND	150	ug/L
4-Chloro-3-methylphenol	ND	150	ug/L
2-Methylnaphthalene	ND	150	ug/L
Hexachlorocyclopentadiene	ND	760	ug/L
2,4,6-Trichlorophenol	ND	150	ug/L
2,4,5-Trichlorophenol	ND	150	ug/L
2-Chloronaphthalene	ND	150	ug/L
2-Nitroaniline	ND	760	ug/L
Dimethyl phthalate	ND	150	ug/L
Acenaphthylene	ND	150	ug/L
2,6-Dinitrotoluene	ND	150	ug/L
3-Nitroaniline	**25 J**	**760**	**ug/L**
Acenaphthene	ND	150	ug/L
2,4-Dinitrophenol	ND	760	ug/L
4-Nitrophenol	ND	760	ug/L
Dibenzofuran	ND	150	ug/L
2,4-Dinitrotoluene	**54 J**	**150**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

GC/MS Semivolatiles

Lot-Sample #...: H8F260206-004 **Work Order #...:** CJDJ1202 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	150	ug/L
4-Chlorophenyl phenyl ether	ND	150	ug/L
Fluorene	ND	150	ug/L
4-Nitroaniline	ND	760	ug/L
4,6-Dinitro-2-methylphenol	ND	760	ug/L
N-Nitrosodiphenylamine	ND	150	ug/L
4-Bromophenyl phenyl ether	ND	150	ug/L
Hexachlorobenzene	ND	150	ug/L
Pentachlorophenol	ND	760	ug/L
Phenanthrene	ND	150	ug/L
Anthracene	ND	150	ug/L
Carbazole	ND	150	ug/L
Di-n-butyl phthalate	ND	150	ug/L
Fluoranthene	ND	150	ug/L
Pyrene	ND	150	ug/L
Butyl benzyl phthalate	ND	150	ug/L
3,3'-Dichlorobenzidine	ND	760	ug/L
Benzo(a)anthracene	ND	150	ug/L
Chrysene	ND	150	ug/L
bis(2-Ethylhexyl) phthalate	ND	150	ug/L
Di-n-octyl phthalate	ND	150	ug/L
Benzo(b)fluoranthene	ND	150	ug/L
Benzo(k)fluoranthene	ND	150	ug/L
Benzo(a)pyrene	ND	150	ug/L
Indeno(1,2,3-cd)pyrene	ND	150	ug/L
Dibenz(a,h)anthracene	ND	150	ug/L
Benzo(ghi)perylene	ND	150	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(27 - 106)
Phenol-d5	NC,DIL	(27 - 111)
Nitrobenzene-d5	NC,DIL	(37 - 115)
2-Fluorobiphenyl	NC,DIL	(43 - 116)
2,4,6-Tribromophenol	NC,DIL	(27 - 127)
Terphenyl-d14	NC,DIL	(33 - 141)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8370

GC/MS Semivolatiles

Lot-Sample #...: H8F290101-001 **Work Order #...:** CJEEC102 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8182227
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8370

GC/MS Semivolatiles

Lot-Sample #...: H8F290101-001 **Work Order #...:** CJEEC102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	53	(27 - 106)
Phenol-d5	64	(27 - 111)
Nitrobenzene-d5	79	(37 - 115)
2-Fluorobiphenyl	73	(43 - 116)
2,4,6-Tribromophenol	90	(27 - 127)
Terphenyl-d14	50	(33 - 141)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

GC/MS Semivolatiles

Lot-Sample #...: H8F290101-002 **Work Order #...:** CJEEJ102 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8182227
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	**2.1 J**	**50**	**ug/L**
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	**1.8 J**	**10**	**ug/L**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

GC/MS Semivolatiles

Lot-Sample #...: H8F290101-002 **Work Order #...:** CJEEJ102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(27 - 106)
Phenol-d5	63	(27 - 111)
Nitrobenzene-d5	74	(37 - 115)
2-Fluorobiphenyl	76	(43 - 116)
2,4,6-Tribromophenol	102	(27 - 127)
Terphenyl-d14	56	(33 - 141)

NOTE(S):

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9039

GC/MS Semivolatiles

Lot-Sample #...: H8F290120-001 **Work Order #...:** CJENX102 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/29/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8182227
Dilution Factor: 1 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORPORATION - KNOXVILLE

Client Sample ID: 9039

GC/MS Semivolatiles

Lot-Sample #...: H8F290120-001 **Work Order #...:** CJENX102 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	**120 B**	**10**	**ug/L**
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(27 - 106)
Phenol-d5	59	(27 - 111)
Nitrobenzene-d5	69	(37 - 115)
2-Fluorobiphenyl	72	(43 - 116)
2,4,6-Tribromophenol	92	(27 - 127)
Terphenyl-d14	88	(33 - 141)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJEJ6101 **Matrix.....:** WATER
MB Lot-Sample #: H8F290000-180

Prep Date.....: 06/29/98
Analysis Date..: 07/10/98 **Prep Batch #...:** 8180180
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
Acenaphthene	ND	10	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJEJ6101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	10	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	**2.5 J**	**10**	**ug/L**	**SW846 8270B**
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(27 - 106)
Phenol-d5	76	(27 - 111)
Nitrobenzene-d5	80	(37 - 115)
2-Fluorobiphenyl	78	(43 - 116)
2,4,6-Tribromophenol	86	(27 - 127)
Terphenyl-d14	91	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJEJ6102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8F290000-180 CJEJ6103-LCSD
Prep Date.....: 06/29/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8180180
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**65**	**(28 - 113)**			**SW846 8270B**
	75	**(28 - 113)**	**15**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**69**	**(52 - 103)**			**SW846 8270B**
	79	**(52 - 103)**	**15**	**(0-20)**	**SW846 8270B**
1,4-Dichlorobenzene	**61**	**(40 - 100)**			**SW846 8270B**
	70	**(40 - 100)**	**14**	**(0-20)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**62**	**(22 - 125)**			**SW846 8270B**
	71	**(22 - 125)**	**13**	**(0-21)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**71**	**(49 - 100)**			**SW846 8270B**
	80	**(49 - 100)**	**12**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**71**	**(54 - 110)**			**SW846 8270B**
	81	**(54 - 110)**	**13**	**(0-20)**	**SW846 8270B**
Acenaphthene	**70**	**(58 - 113)**			**SW846 8270B**
	79	**(58 - 113)**	**12**	**(0-20)**	**SW846 8270B**
4-Nitrophenol	**63**	**(18 - 135)**			**SW846 8270B**
	78	**(18 - 135)**	**21**	**(0-21)**	**SW846 8270B**
2,4-Dinitrotoluene	**83**	**(59 - 120)**			**SW846 8270B**
	98	**(59 - 120)**	**16**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**78**	**(20 - 123)**			**SW846 8270B**
	91	**(20 - 123)**	**15**	**(0-31)**	**SW846 8270B**
Pyrene	**80**	**(54 - 122)**			**SW846 8270B**
	92	**(54 - 122)**	**15**	**(0-26)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(27 - 106)
	67	(27 - 106)
Phenol-d5	72	(27 - 111)
	82	(27 - 111)
Nitrobenzene-d5	74	(37 - 115)
	82	(37 - 115)
2-Fluorobiphenyl	75	(43 - 116)
	83	(43 - 116)
2,4,6-Tribromophenol	79	(27 - 127)
	89	(27 - 127)
Terphenyl-d14	84	(33 - 141)
	94	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJGA8101 **Matrix.....:** WATER
MB Lot-Sample #: H8G010000-227

Prep Date.....: 07/02/98
Analysis Date..: 07/13/98 **Prep Batch #...:** 8182227
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270B
2-Chlorophenol	ND	10	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270B
2-Methylphenol	ND	10	ug/L	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270B
4-Methylphenol	ND	10	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270B
Hexachloroethane	ND	10	ug/L	SW846 8270B
Nitrobenzene	ND	10	ug/L	SW846 8270B
Isophorone	ND	10	ug/L	SW846 8270B
2-Nitrophenol	ND	10	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270B
Naphthalene	ND	10	ug/L	SW846 8270B
4-Chloroaniline	ND	10	ug/L	SW846 8270B
Hexachlorobutadiene	ND	10	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270B
2-Methylnaphthalene	ND	10	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270B
2-Chloronaphthalene	ND	10	ug/L	SW846 8270B
2-Nitroaniline	ND	50	ug/L	SW846 8270B
Dimethyl phthalate	ND	10	ug/L	SW846 8270B
Acenaphthylene	ND	10	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270B
3-Nitroaniline	ND	50	ug/L	SW846 8270B
Acenaphthene	ND	10	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270B
4-Nitrophenol	ND	50	ug/L	SW846 8270B
Dibenzofuran	ND	10	ug/L	SW846 8270B
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270B
Diethyl phthalate	ND	10	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJGA8101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	10	ug/L	SW846 8270B
4-Nitroaniline	ND	50	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270B
Hexachlorobenzene	ND	10	ug/L	SW846 8270B
Pentachlorophenol	ND	50	ug/L	SW846 8270B
Phenanthrene	ND	10	ug/L	SW846 8270B
Anthracene	ND	10	ug/L	SW846 8270B
Carbazole	ND	10	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270B
Fluoranthene	ND	10	ug/L	SW846 8270B
Pyrene	ND	10	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270B
Benzo(a)anthracene	ND	10	ug/L	SW846 8270B
Chrysene	ND	10	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270B
Benzo(a)pyrene	ND	10	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	57	(27 - 106)
Phenol-d5	68	(27 - 111)
Nitrobenzene-d5	85	(37 - 115)
2-Fluorobiphenyl	76	(43 - 116)
2,4,6-Tribromophenol	88	(27 - 127)
Terphenyl-d14	84	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJGA8102 **Matrix.....:** WATER
LCS Lot-Sample#: H8G010000-227
Prep Date.....: 07/02/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8182227
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**60**	**(28 - 113)**	**SW846 8270B**
2-Chlorophenol	**65**	**(52 - 103)**	**SW846 8270B**
1,4-Dichlorobenzene	**56**	**(40 - 100)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**67**	**(22 - 125)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**73**	**(49 - 100)**	**SW846 8270B**
4-Chloro-3-methylphenol	**72**	**(54 - 110)**	**SW846 8270B**
Acenaphthene	**67**	**(58 - 113)**	**SW846 8270B**
4-Nitrophenol	**120**	**(18 - 135)**	**SW846 8270B**
2,4-Dinitrotoluene	**80**	**(59 - 120)**	**SW846 8270B**
Pentachlorophenol	**85**	**(20 - 123)**	**SW846 8270B**
Pyrene	**62**	**(54 - 122)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(27 - 106)
Phenol-d5	67	(27 - 111)
Nitrobenzene-d5	87	(37 - 115)
2-Fluorobiphenyl	79	(43 - 116)
2,4,6-Tribromophenol	93	(27 - 127)
Terphenyl-d14	68	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJVAG101 **Matrix.....:** WATER
MB Lot-Sample #: H8G170000-140

Prep Date.....: 07/17/98
Analysis Date..: 07/20/98 **Prep Batch #...:** 8198140
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	15	ug/L	SW846 8270B
bis(2-Chloroethyl) ether	ND	15	ug/L	SW846 8270B
2-Chlorophenol	ND	15	ug/L	SW846 8270B
1,3-Dichlorobenzene	ND	15	ug/L	SW846 8270B
1,4-Dichlorobenzene	ND	15	ug/L	SW846 8270B
1,2-Dichlorobenzene	ND	15	ug/L	SW846 8270B
2-Methylphenol	ND	15	ug/L	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	15	ug/L	SW846 8270B
4-Methylphenol	ND	15	ug/L	SW846 8270B
N-Nitrosodi-n-propylamine	ND	15	ug/L	SW846 8270B
Hexachloroethane	ND	15	ug/L	SW846 8270B
Nitrobenzene	ND	15	ug/L	SW846 8270B
Isophorone	ND	15	ug/L	SW846 8270B
2-Nitrophenol	ND	15	ug/L	SW846 8270B
2,4-Dimethylphenol	ND	15	ug/L	SW846 8270B
bis(2-Chloroethoxy) methane	ND	15	ug/L	SW846 8270B
2,4-Dichlorophenol	ND	15	ug/L	SW846 8270B
1,2,4-Trichlorobenzene	ND	15	ug/L	SW846 8270B
Naphthalene	ND	15	ug/L	SW846 8270B
4-Chloroaniline	ND	15	ug/L	SW846 8270B
Hexachlorobutadiene	ND	15	ug/L	SW846 8270B
4-Chloro-3-methylphenol	ND	15	ug/L	SW846 8270B
2-Methylnaphthalene	ND	15	ug/L	SW846 8270B
Hexachlorocyclopentadiene	ND	76	ug/L	SW846 8270B
2,4,6-Trichlorophenol	ND	15	ug/L	SW846 8270B
2,4,5-Trichlorophenol	ND	15	ug/L	SW846 8270B
2-Chloronaphthalene	ND	15	ug/L	SW846 8270B
2-Nitroaniline	ND	76	ug/L	SW846 8270B
Dimethyl phthalate	ND	15	ug/L	SW846 8270B
Acenaphthylene	ND	15	ug/L	SW846 8270B
2,6-Dinitrotoluene	ND	15	ug/L	SW846 8270B
3-Nitroaniline	ND	76	ug/L	SW846 8270B
Acenaphthene	ND	15	ug/L	SW846 8270B
2,4-Dinitrophenol	ND	76	ug/L	SW846 8270B
4-Nitrophenol	ND	76	ug/L	SW846 8270B
Dibenzofuran	ND	15	ug/L	SW846 8270B
2,4-Dinitrotoluene	ND	15	ug/L	SW846 8270B
Diethyl phthalate	ND	15	ug/L	SW846 8270B
4-Chlorophenyl phenyl ether	ND	15	ug/L	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJVAG101 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	15	ug/L	SW846 8270B
4-Nitroaniline	ND	76	ug/L	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	76	ug/L	SW846 8270B
N-Nitrosodiphenylamine	ND	15	ug/L	SW846 8270B
4-Bromophenyl phenyl ether	ND	15	ug/L	SW846 8270B
Hexachlorobenzene	ND	15	ug/L	SW846 8270B
Pentachlorophenol	ND	76	ug/L	SW846 8270B
Phenanthrene	ND	15	ug/L	SW846 8270B
Anthracene	ND	15	ug/L	SW846 8270B
Carbazole	ND	15	ug/L	SW846 8270B
Di-n-butyl phthalate	ND	15	ug/L	SW846 8270B
Fluoranthene	ND	15	ug/L	SW846 8270B
Pyrene	ND	15	ug/L	SW846 8270B
Butyl benzyl phthalate	ND	15	ug/L	SW846 8270B
3,3'-Dichlorobenzidine	ND	76	ug/L	SW846 8270B
Benzo(a)anthracene	ND	15	ug/L	SW846 8270B
Chrysene	ND	15	ug/L	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	15	ug/L	SW846 8270B
Di-n-octyl phthalate	ND	15	ug/L	SW846 8270B
Benzo(b)fluoranthene	ND	15	ug/L	SW846 8270B
Benzo(k)fluoranthene	ND	15	ug/L	SW846 8270B
Benzo(a)pyrene	ND	15	ug/L	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	15	ug/L	SW846 8270B
Dibenz(a,h)anthracene	ND	15	ug/L	SW846 8270B
Benzo(ghi)perylene	ND	15	ug/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(27 - 106)
Phenol-d5	71	(27 - 111)
Nitrobenzene-d5	83	(37 - 115)
2-Fluorobiphenyl	74	(43 - 116)
2,4,6-Tribromophenol	86	(27 - 127)
Terphenyl-d14	84	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJVAG102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8G170000-140 CJVAG103-LCSD
Prep Date.....: 07/17/98 **Analysis Date..:** 07/20/98
Prep Batch #...: 8198140
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**65**	**(28 - 113)**			**SW846 8270B**
	70	**(28 - 113)**	**7.5**	**(0-20)**	**SW846 8270B**
2-Chlorophenol	**68**	**(52 - 103)**			**SW846 8270B**
	74	**(52 - 103)**	**8.8**	**(0-20)**	**SW846 8270B**
1,4-Dichlorobenzene	**56**	**(40 - 100)**			**SW846 8270B**
	62	**(40 - 100)**	**11**	**(0-20)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**67**	**(22 - 125)**			**SW846 8270B**
	75	**(22 - 125)**	**10**	**(0-21)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**67**	**(49 - 100)**			**SW846 8270B**
	77	**(49 - 100)**	**14**	**(0-20)**	**SW846 8270B**
4-Chloro-3-methylphenol	**79**	**(54 - 110)**			**SW846 8270B**
	87	**(54 - 110)**	**9.8**	**(0-20)**	**SW846 8270B**
Acenaphthene	**76**	**(58 - 113)**			**SW846 8270B**
	84	**(58 - 113)**	**10**	**(0-20)**	**SW846 8270B**
4-Nitrophenol	**93**	**(18 - 135)**			**SW846 8270B**
	98	**(18 - 135)**	**5.8**	**(0-21)**	**SW846 8270B**
2,4-Dinitrotoluene	**81**	**(59 - 120)**			**SW846 8270B**
	89	**(59 - 120)**	**10**	**(0-20)**	**SW846 8270B**
Pentachlorophenol	**82**	**(20 - 123)**			**SW846 8270B**
	90	**(20 - 123)**	**9.9**	**(0-31)**	**SW846 8270B**
Pyrene	**80**	**(54 - 122)**			**SW846 8270B**
	87	**(54 - 122)**	**8.2**	**(0-26)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(27 - 106)
	63	(27 - 106)
Phenol-d5	73	(27 - 111)
	77	(27 - 111)
Nitrobenzene-d5	83	(37 - 115)
	92	(37 - 115)
2-Fluorobiphenyl	77	(43 - 116)
	82	(43 - 116)
2,4,6-Tribromophenol	89	(27 - 127)
	95	(27 - 127)
Terphenyl-d14	86	(33 - 141)
	90	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

GC Semivolatiles

Lot-Sample #...:	H8F260206-003	**Work Order #...:**	CJDHX103	**Matrix.....:**	WATER
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	07/01/98	**Analysis Date..:**	07/14/98		
Prep Batch #...:	8182225				
Dilution Factor:	1	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	127	(30 - 133)
Decachlorobiphenyl	37	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

GC Semivolatiles

Lot-Sample #...: H8F260206-004 **Work Order #...:** CJDJ1103 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8182225
Dilution Factor: 1 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115	(30 - 133)
Decachlorobiphenyl	31	(30 - 139)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7630R

GC Semivolatiles

Lot-Sample #...: H8F260206-006 Work Order #...: CJDJ5101 Matrix.....: WATER
Date Sampled...: 06/25/98 Date Received..: 06/26/98
Prep Date.....: 07/01/98 Analysis Date..: 07/14/98
Prep Batch #...: 8182225
Dilution Factor: 1 Method.....: SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	184 *	(30 - 133)
Decachlorobiphenyl	37	(30 - 139)

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9039

GC Semivolatiles

Lot-Sample #...:	H8F290120-001	**Work Order #...:**	CJENX103	**Matrix.....:**	WATER
Date Sampled...:	06/26/98	**Date Received..:**	06/29/98		
Prep Date.....:	07/01/98	**Analysis Date..:**	07/14/98		
Prep Batch #...:	8182225				
Dilution Factor:	1	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(30 - 133)
Decachlorobiphenyl	54	(30 - 139)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJG8T101 **Matrix.....:** WATER
MB Lot-Sample #: H8G010000-225

Prep-Date.....: 07/01/98
Analysis Date..: 07/14/98 **Prep Batch #...:** 8182225
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8081
Aroclor 1221	ND	1.0	ug/L	SW846 8081
Aroclor 1232	ND	1.0	ug/L	SW846 8081
Aroclor 1242	ND	1.0	ug/L	SW846 8081
Aroclor 1248	ND	1.0	ug/L	SW846 8081
Aroclor 1254	ND	1.0	ug/L	SW846 8081
Aroclor 1260	ND	1.0	ug/L	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(30 - 133)
Decachlorobiphenyl	88	(30 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB034 **Work Order #...:** CJG8T102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8G010000-225 CJG8T103-LCSD
Prep Date.....: 07/01/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8182225
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**115**	**(70 - 158)**			**SW846 8081**
	115	**(70 - 158)**	**0.76**	**(0-25)**	**SW846 8081**
Aroclor 1260	**101**	**(70 - 158)**			**SW846 8081**
	100	**(70 - 158)**	**0.87**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	100	(30 - 133)
	99	(30 - 133)
Decachlorobiphenyl	98	(30 - 139)
	94	(30 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8170

HPLC

Lot-Sample #...:	H8F250216-001	**Work Order #...:**	CJCEW104	**Matrix.....:**	WATER
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	06/29/98	**Analysis Date..:**	07/15/98		
Prep Batch #...:	8180343				
Dilution Factor:	10	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	2.0	ug/L
1,3-Dinitrobenzene	ND	2.0	ug/L
2,4-Dinitrotoluene	ND	2.0	ug/L
2,6-Dinitrotoluene	ND	2.0	ug/L
HMX	ND	5.0	ug/L
Nitrobenzene	ND	2.0	ug/L
2-Nitrotoluene	ND	2.0	ug/L
3-Nitrotoluene	ND	2.0	ug/L
RDX	ND	5.0	ug/L
Tetryl	ND	2.0	ug/L
1,3,5-Trinitrobenzene	ND	2.0	ug/L
2,4,6-Trinitrotoluene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8250

HPLC

Lot-Sample #...:	H8F250216-002	**Work Order #...:**	CJCEX102	**Matrix.....:**	WATER
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	06/29/98	**Analysis Date..:**	07/15/98		
Prep Batch #...:	8180343				
Dilution Factor:	5	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	1.0	ug/L
1,3-Dinitrobenzene	ND	1.0	ug/L
2,4-Dinitrotoluene	ND	1.0	ug/L
2,6-Dinitrotoluene	ND	1.0	ug/L
HMX	ND	2.5	ug/L
Nitrobenzene	ND	1.0	ug/L
2-Nitrotoluene	ND	1.0	ug/L
3-Nitrotoluene	ND	1.0	ug/L
RDX	ND	2.5	ug/L
Tetryl	ND	1.0	ug/L
1,3,5-Trinitrobenzene	ND	1.0	ug/L
2,4,6-Trinitrotoluene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	110	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8251

HPLC

Lot-Sample #...:	H8F250216-003	**Work Order #...:**	CJCF0102	**Matrix.....:**	WATER
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	06/29/98	**Analysis Date..:**	07/15/98		
Prep Batch #...:	8180343				
Dilution Factor:	5	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	1.0	ug/L
1,3-Dinitrobenzene	ND	1.0	ug/L
2,4-Dinitrotoluene	ND	1.0	ug/L
2,6-Dinitrotoluene	ND	1.0	ug/L
HMX	ND	2.5	ug/L
Nitrobenzene	ND	1.0	ug/L
2-Nitrotoluene	ND	1.0	ug/L
3-Nitrotoluene	ND	1.0	ug/L
RDX	ND	2.5	ug/L
Tetryl	ND	1.0	ug/L
1,3,5-Trinitrobenzene	ND	1.0	ug/L
2,4,6-Trinitrotoluene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8330

HPLC

Lot-Sample #...:	H8F250216-004	**Work Order #...:**	CJCF1102	**Matrix.....:**	WATER
Date Sampled...:	06/23/98	**Date Received..:**	06/25/98		
Prep Date.....:	06/29/98	**Analysis Date..:**	07/15/98		
Prep Batch #...:	8180343				
Dilution Factor:	1	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	**0.20**	**0.20**	**ug/L**
2,4-Dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	104	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8130

HPLC

Lot-Sample #...:	H8F260206-001	**Work Order #...:**	CJDHR102	**Matrix.....:**	WATER
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	06/29/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8180343				
Dilution Factor:	50	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	10	ug/L
1,3-Dinitrobenzene	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
HMX	ND	25	ug/L
Nitrobenzene	ND	10	ug/L
2-Nitrotoluene	ND	10	ug/L
3-Nitrotoluene	ND	10	ug/L
RDX	ND	25	ug/L
Tetryl	ND	10	ug/L
1,3,5-Trinitrobenzene	ND	10	ug/L
2,4,6-Trinitrotoluene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

HPLC

Lot-Sample #...:	H8F260206-003	**Work Order #...:**	CJDHX104	**Matrix.....:**	WATER
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	06/29/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8180343				
Dilution Factor:	100	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	20	ug/L
1,3-Dinitrobenzene	ND	20	ug/L
2,4-Dinitrotoluene	ND	20	ug/L
2,6-Dinitrotoluene	ND	20	ug/L
HMX	ND	50	ug/L
Nitrobenzene	ND	20	ug/L
2-Nitrotoluene	ND	20	ug/L
3-Nitrotoluene	ND	20	ug/L
RDX	ND	50	ug/L
Tetryl	ND	20	ug/L
1,3,5-Trinitrobenzene	**40**	**20**	**ug/L**
2,4,6-Trinitrotoluene	ND	20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

HPLC

Lot-Sample #...:	H8F260206-004	**Work Order #...:**	CJDJ1104	**Matrix.....:**	WATER
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	06/29/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8180343				
Dilution Factor:	100	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	20	ug/L
1,3-Dinitrobenzene	ND	20	ug/L
2,4-Dinitrotoluene	**22**	**20**	**ug/L**
2,6-Dinitrotoluene	ND	20	ug/L
HMX	ND	50	ug/L
Nitrobenzene	ND	20	ug/L
2-Nitrotoluene	ND	20	ug/L
3-Nitrotoluene	ND	20	ug/L
RDX	ND	50	ug/L
Tetryl	ND	20	ug/L
1,3,5-Trinitrobenzene	**32**	**20**	**ug/L**
2,4,6-Trinitrotoluene	ND	20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7630R

HPLC

Lot-Sample #...:	H8F260206-006	Work Order #...:	CJDJ5102	Matrix.....:	WATER
Date Sampled...:	06/25/98	Date Received..:	06/26/98		
Prep Date.....:	06/29/98	Analysis Date..:	07/16/98		
Prep Batch #...:	8180343				
Dilution Factor:	200	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	62	ug/L
1,3-Dinitrobenzene	**840**	**62**	**ug/L**
2,4-Dinitrotoluene	**150**	**62**	**ug/L**
2,6-Dinitrotoluene	ND	62	ug/L
HMX	ND	150	ug/L
Nitrobenzene	ND	62	ug/L
2-Nitrotoluene	ND	62	ug/L
3-Nitrotoluene	ND	62	ug/L
RDX	ND	150	ug/L
Tetryl	ND	62	ug/L
1,3,5-Trinitrobenzene	**600**	**62**	**ug/L**
2,4,6-Trinitrotoluene	ND	62	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8370

HPLC

Lot-Sample #...:	H8F290101-001	**Work Order #...:**	CJEEC103	**Matrix.....:**	WATER
Date Sampled...:	06/26/98	**Date Received..:**	06/27/98		
Prep Date.....:	07/01/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8182305				
Dilution Factor:	5	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	1.0	ug/L
1,3-Dinitrobenzene	ND	1.0	ug/L
2,4-Dinitrotoluene	ND	1.0	ug/L
2,6-Dinitrotoluene	ND	1.0	ug/L
HMX	ND	2.5	ug/L
Nitrobenzene	ND	1.0	ug/L
2-Nitrotoluene	ND	1.0	ug/L
3-Nitrotoluene	ND	1.0	ug/L
RDX	ND	2.5	ug/L
Tetryl	ND	1.0	ug/L
1,3,5-Trinitrobenzene	ND	1.0	ug/L
2,4,6-Trinitrotoluene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	132	(39 - 157)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

HPLC

Lot-Sample #...:	H8F290101-002	**Work Order #...:**	CJEEJ103	**Matrix.....:**	WATER
Date Sampled...:	06/26/98	**Date Received..:**	06/27/98		
Prep Date.....:	07/01/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8182305				
Dilution Factor:	10	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	2.0	ug/L
1,3-Dinitrobenzene	ND	2.0	ug/L
2,4-Dinitrotoluene	ND	2.0	ug/L
2,6-Dinitrotoluene	ND	2.0	ug/L
HMX	ND	5.0	ug/L
Nitrobenzene	ND	2.0	ug/L
2-Nitrotoluene	ND	2.0	ug/L
3-Nitrotoluene	ND	2.0	ug/L
RDX	ND	5.0	ug/L
Tetryl	ND	2.0	ug/L
1,3,5-Trinitrobenzene	**7.2**	**2.0**	**ug/L**
2,4,6-Trinitrotoluene	**7.1**	**2.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8690

HPLC

Lot-Sample #...:	H8F290101-003	**Work Order #...:**	CJEEL102	**Matrix.....:**	WATER
Date Sampled...:	06/26/98	**Date Received..:**	06/27/98		
Prep Date.....:	07/01/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8182305				
Dilution Factor:	5	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	1.0	ug/L
1,3-Dinitrobenzene	ND	1.0	ug/L
2,4-Dinitrotoluene	**1.1**	**1.0**	**ug/L**
2,6-Dinitrotoluene	ND	1.0	ug/L
HMX	ND	2.5	ug/L
Nitrobenzene	ND	1.0	ug/L
2-Nitrotoluene	ND	1.0	ug/L
3-Nitrotoluene	ND G	3.4	ug/L
RDX	ND	2.5	ug/L
Tetryl	ND	1.0	ug/L
1,3,5-Trinitrobenzene	ND	1.0	ug/L
2,4,6-Trinitrotoluene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(39 - 157)

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8850

HPLC

Lot-Sample #...:	H8F290101-004	**Work Order #...:**	CJEET102	**Matrix.....:**	WATER
Date Sampled...:	06/26/98	**Date Received..:**	06/27/98		
Prep Date.....:	07/01/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8182305				
Dilution Factor:	1	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	0.24	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND G	5.6	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	84	(39 - 157)

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

IT CORPORATION - KNOXVILLE

Client Sample ID: 9039

HPLC

Lot-Sample #...:	H8F290120-001	**Work Order #...:**	CJENX104	**Matrix.....:**	WATER
Date Sampled...:	06/26/98	**Date Received..:**	06/29/98		
Prep Date.....:	07/01/98	**Analysis Date..:**	07/16/98		
Prep Batch #...:	8182305				
Dilution Factor:	1	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	**0.54**	**0.20**	**ug/L**
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	88	(39 - 157)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB034 **Work Order #...:** CJF06101 **Matrix.....:** WATER
MB Lot-Sample #: H8F290000-343

Prep Date.....: 06/29/98
Analysis Date..: 07/17/98 **Prep Batch #...:** 8180343
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	103	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8F250216 **Work Order #...:** CJCEW105-MS **Matrix.....:** WATER
MS Lot-Sample #: H8F250216-001 CJCEW106-MSD
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 06/29/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8180343
Dilution Factor: 10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	**103 DIL**	**(53 - 153)**			**SW846 8330**
	105 DIL	**(53 - 153)**	**2.4**	**(0-21)**	**SW846 8330**
4-Nitrotoluene	**101 DIL**	**(35 - 163)**			**SW846 8330**
	120 DIL	**(35 - 163)**	**17**	**(0-25)**	**SW846 8330**
HMX	**0.0 a,DIL**	**(61 - 124)**			**SW846 8330**
	0.0 a,DIL	**(61 - 124)**	**0.0**	**(0-23)**	**SW846 8330**
RDX	**45 a,DIL**	**(82 - 159)**			**SW846 8330**
	65 a,p,DI	**(82 - 159)**	**36**	**(0-30)**	**SW846 8330**
1,3,5-Trinitrobenzene	**90 DIL**	**(66 - 155)**			**SW846 8330**
	104 DIL	**(66 - 155)**	**9.3**	**(0-18)**	**SW846 8330**
1,3-Dinitrobenzene	**106 DIL**	**(78 - 145)**			**SW846 8330**
	108 DIL	**(78 - 145)**	**1.8**	**(0-25)**	**SW846 8330**
Tetryl	**96 DIL**	**(47 - 140)**			**SW846 8330**
	107 DIL	**(47 - 140)**	**11**	**(0-35)**	**SW846 8330**
Nitrobenzene	**101 DIL**	**(69 - 140)**			**SW846 8330**
	108 DIL	**(69 - 140)**	**6.5**	**(0-20)**	**SW846 8330**
2,4,6-Trinitrotoluene	**92 DIL**	**(44 - 156)**			**SW846 8330**
	91 DIL	**(44 - 156)**	**1.6**	**(0-24)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**117 DIL**	**(36 - 162)**			**SW846 8330**
	105 DIL	**(36 - 162)**	**11**	**(0-23)**	**SW846 8330**
2,6-Dinitrotoluene	**100 DIL**	**(66 - 150)**			**SW846 8330**
	100 DIL	**(66 - 150)**	**0.05**	**(0-19)**	**SW846 8330**
2,4-Dinitrotoluene	**102 DIL**	**(63 - 161)**			**SW846 8330**
	109 DIL	**(63 - 161)**	**6.4**	**(0-19)**	**SW846 8330**
2-Nitrotoluene	**106 DIL**	**(45 - 149)**			**SW846 8330**
	106 DIL	**(45 - 149)**	**0.18**	**(0-24)**	**SW846 8330**
3-Nitrotoluene	**0.0 a,DIL**	**(55 - 138)**			**SW846 8330**
	167	**(55 - 138)**	**200**	**(0-23)**	**SW846 8330**

Qualifiers: a,p,DIL

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	NC,DIL	(39 - 157)
	NC,DIL	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB034 **Work Order #...:** CJF06102 **Matrix.....:** WATER
LCS Lot-Sample#: H8F290000-343
Prep Date.....: 06/29/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8180343
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**88**	**(67 - 123)**	**SW846 8330**
RDX	**117**	**(85 - 157)**	**SW846 8330**
1,3,5-Trinitrobenzene	**111**	**(80 - 141)**	**SW846 8330**
1,3-Dinitrobenzene	**110**	**(81 - 142)**	**SW846 8330**
Tetryl	**87**	**(55 - 140)**	**SW846 8330**
Nitrobenzene	**111**	**(69 - 140)**	**SW846 8330**
2,4,6-Trinitrotoluene	**92**	**(69 - 146)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**100**	**(75 - 130)**	**SW846 8330**
2,6-Dinitrotoluene	**102**	**(74 - 135)**	**SW846 8330**
2,4-Dinitrotoluene	**102**	**(77 - 135)**	**SW846 8330**
2-Nitrotoluene	**103**	**(58 - 136)**	**SW846 8330**
3-Nitrotoluene	**100**	**(64 - 126)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**102**	**(80 - 131)**	**SW846 8330**
4-Nitrotoluene	**100**	**(69 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	109	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: PB034 **Work Order #...:** CJGV7101 **Matrix.....:** WATER
MB Lot-Sample #: H8G010000-305

Prep Date.....: 07/01/98
Analysis Date..: 07/16/98 **Prep Batch #...:** 8182305
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	138	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB034 **Work Order #...:** CJGV7102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8G010000-305 CJGV7103-LCSD
Prep Date.....: 07/01/98 **Analysis Date..:** 07/16/98
Prep Batch #...: 8182305
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	94	(67 - 123)			SW846 8330
	105	(67 - 123)	11	(0-23)	SW846 8330
RDX	118	(85 - 157)			SW846 8330
	131	(85 - 157)	11	(0-30)	SW846 8330
1,3,5-Trinitrobenzene	117	(80 - 141)			SW846 8330
	130	(80 - 141)	10	(0-18)	SW846 8330
1,3-Dinitrobenzene	114	(81 - 142)			SW846 8330
	124	(81 - 142)	8.7	(0-25)	SW846 8330
Tetryl	92	(55 - 140)			SW846 8330
	103	(55 - 140)	11	(0-35)	SW846 8330
Nitrobenzene	111	(69 - 140)			SW846 8330
	118	(69 - 140)	6.0	(0-20)	SW846 8330
2,4,6-Trinitrotoluene	98	(69 - 146)			SW846 8330
	111	(69 - 146)	13	(0-24)	SW846 8330
4-Amino-2,6-dinitrotoluene	106	(75 - 130)			SW846 8330
	117	(75 - 130)	10	(0-23)	SW846 8330
2,6-Dinitrotoluene	105	(74 - 135)			SW846 8330
	119	(74 - 135)	12	(0-19)	SW846 8330
2,4-Dinitrotoluene	107	(77 - 135)			SW846 8330
	119	(77 - 135)	11	(0-19)	SW846 8330
2-Nitrotoluene	102	(58 - 136)			SW846 8330
	110	(58 - 136)	7.4	(0-24)	SW846 8330
3-Nitrotoluene	100	(64 - 126)			SW846 8330
	108	(64 - 126)	7.2	(0-23)	SW846 8330
2-Amino-4,6-dinitrotoluene	105	(80 - 131)			SW846 8330
	117	(80 - 131)	11	(0-21)	SW846 8330
4-Nitrotoluene	102	(69 - 122)			SW846 8330
	110	(69 - 122)	8.1	(0-25)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(39 - 157)
	122	(39 - 157)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8170

TOTAL Metals

Lot-Sample #...: H8F250216-001 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJCEW12E
		Dilution Factor: 1				
Prep Batch #...: 8197298						
Aluminum	**13100**	**200**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCEW107**
		Dilution Factor: 1				
Arsenic	**21.4**	**20.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCEW121**
		Dilution Factor: 2				
Lead	**14.4**	**6.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCEW124**
		Dilution Factor: 2				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW10A
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJCEW10E
		Dilution Factor: 1				
Selenium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW127
		Dilution Factor: 2				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW10H
		Dilution Factor: 1				
Thallium	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW12A
		Dilution Factor: 2				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW10L
		Dilution Factor: 1				
Calcium	**336000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCEW10P**
		Dilution Factor: 1				
Chromium	**28.8**	**10.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCEW10T**
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW10W
		Dilution Factor: 1				
Copper	**90.2**	**25.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCEW111**
		Dilution Factor: 1				

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8170

TOTAL Metals

Lot-Sample #...: H8F250216-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	39900	100	ug/L	SW846 6010A	07/17-07/18/98	CJCEW114
		Dilution Factor: 1				
Magnesium	95100	5000	ug/L	SW846 6010A	07/17-07/18/98	CJCEW117
		Dilution Factor: 1				
Manganese	750	15.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW11A
		Dilution Factor: 1				
Nickel	61.5	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW11E
		Dilution Factor: 1				
Potassium	6880	5000	ug/L	SW846 6010A	07/17-07/18/98	CJCEW11H
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW11L
		Dilution Factor: 1				
Sodium	408000	5000	ug/L	SW846 6010A	07/17-07/18/98	CJCEW11P
		Dilution Factor: 1				
Vanadium	62.0	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW11T
		Dilution Factor: 1				
Zinc	123	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJCEW11W
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 8170

DISSOLVED Metals

Lot-Sample #...: H8F250216-006 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195237						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJCF3127
		Dilution Factor: 1				
Prep Batch #...: 8197302						
Aluminum	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJCF3101
		Dilution Factor: 1				
Arsenic	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF311T
		Dilution Factor: 2				
Lead	ND	6.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF311W
		Dilution Factor: 2				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF3104
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJCF3107
		Dilution Factor: 1				
Selenium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF3121
		Dilution Factor: 2				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF310A
		Dilution Factor: 1				
Thallium	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF3124
		Dilution Factor: 2				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF310E
		Dilution Factor: 1				
Calcium	**211000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCF310H**
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF310L
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF310P
		Dilution Factor: 1				
Copper	**42.1**	**25.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCF310T**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8170

DISSOLVED Metals

Lot-Sample #...: H8F250216-006 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJCF310W
		Dilution Factor: 1				
Magnesium	**62800**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCF3111**
		Dilution Factor: 1				
Manganese	**84.5**	**15.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCF3114**
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF3117
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJCF311A
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF311E
		Dilution Factor: 1				
Sodium	**443000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJCF311H**
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF311L
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJCF311P
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 8250B

TOTAL Metals

Lot-Sample #...: H8F260206-002 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJDHV10R
		Dilution Factor: 1				
Prep Batch #...: 8197298						
Aluminum	**1240**	**200**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHV102**
		Dilution Factor: 1				
Arsenic	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV10M
		Dilution Factor: 2				
Lead	ND	6.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV10N
		Dilution Factor: 2				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV103
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJDHV104
		Dilution Factor: 1				
Selenium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV10P
		Dilution Factor: 2				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV105
		Dilution Factor: 1				
Thallium	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV10Q
		Dilution Factor: 2				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV106
		Dilution Factor: 1				
Calcium	**569000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHV107**
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV10A
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8250B

TOTAL Metals

Lot-Sample #...: H8F260206-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**2650**	**100**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHV10C**
		Dilution Factor: 1				
Magnesium	**234000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHV10D**
		Dilution Factor: 1				
Manganese	**1410**	**15.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHV10E**
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV10F
		Dilution Factor: 1				
Potassium	**17400**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHV10G**
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV10H
		Dilution Factor: 1				
Sodium	**81800**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHV10J**
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHV10K
		Dilution Factor: 1				
Zinc	**22.1**	**20.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHV10L**
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 8250B

DISSOLVED Metals

Lot-Sample #...: H8F260206-007 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195237						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJDJ610Q
		Dilution Factor: 1				
Prep Batch #...: 8197302						
Aluminum	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJDJ6101
		Dilution Factor: 1				
Arsenic	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610L
		Dilution Factor: 2				
Lead	ND	6.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610M
		Dilution Factor: 2				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ6102
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJDJ6103
		Dilution Factor: 1				
Selenium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610N
		Dilution Factor: 2				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ6104
		Dilution Factor: 1				
Thallium	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610P
		Dilution Factor: 2				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ6105
		Dilution Factor: 1				
Calcium	**549000**	**10000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ6106**
		Dilution Factor: 2				
Chromium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ6107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ6108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ6109
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8250B

DISSOLVED Metals

Lot-Sample #...: H8F260206-007 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610A
		Dilution Factor: 1				
Magnesium	**242000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ610C**
		Dilution Factor: 1				
Manganese	**1450**	**15.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ610D**
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610E
		Dilution Factor: 1				
Potassium	**18200**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ610F**
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610G
		Dilution Factor: 1				
Sodium	**114000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ610H**
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610J
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ610K
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

TOTAL Metals

Lot-Sample #...: H8F260206-003 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195236						
Mercury	**0.47**	**0.20**	**ug/L**	**SW846 7470A**	**07/14-07/15/98**	**CJDHX10V**
		Dilution Factor: 1				
Prep Batch #...: 8197298						
Aluminum	**206000**	**200**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX105**
		Dilution Factor: 1				
Arsenic	**111**	**100**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX10Q**
		Dilution Factor: 10				
Lead	**157**	**30.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX10R**
		Dilution Factor: 10				
Antimony	**106**	**60.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX106**
		Dilution Factor: 1				
Barium	**773**	**200**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX107**
		Dilution Factor: 1				
Selenium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10T
		Dilution Factor: 10				
Beryllium	**9.5**	**5.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX108**
		Dilution Factor: 1				
Thallium	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10U
		Dilution Factor: 10				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJDHX109
		Dilution Factor: 1				
Calcium	**2680000**	**50000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX10A**
		Dilution Factor: 10				
Chromium	**296**	**10.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX10C**
		Dilution Factor: 1				
Cobalt	**264**	**50.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX10D**
		Dilution Factor: 1				
Copper	**654**	**25.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDHX10E**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

TOTAL Metals

Lot-Sample #...: H8F260206-003 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	339000	100 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10F
Magnesium	651000	5000 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10G
Manganese	9280	15.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10H
Nickel	515	40.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10J
Potassium	33100	5000 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10K
Silver	ND	10.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10L
Sodium	907000	50000 Dilution Factor: 10	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10M
Vanadium	381	50.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10N
Zinc	1260	20.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDHX10P

IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

DISSOLVED Metals

Lot-Sample #...: H8F260206-008 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195237						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJDJ810Q
		Dilution Factor: 1				
Prep Batch #...: 8197302						
Aluminum	**203**	**200**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ8101**
		Dilution Factor: 1				
Arsenic	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJDJ810L
		Dilution Factor: 10				
Lead	ND	30.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ810M
		Dilution Factor: 10				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ8102
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJDJ8103
		Dilution Factor: 1				
Selenium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ810N
		Dilution Factor: 10				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ8104
		Dilution Factor: 1				
Thallium	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJDJ810P
		Dilution Factor: 10				
Cadmium	**46.0**	**5.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ8105**
		Dilution Factor: 1				
Calcium	**735000**	**50000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ8106**
		Dilution Factor: 10				
Chromium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ8107
		Dilution Factor: 1				
Cobalt	**162**	**50.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ8108**
		Dilution Factor: 1				
Copper	**117**	**25.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ8109**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8730

DISSOLVED Metals

Lot-Sample #...: H8F260206-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**373**	**100**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ810A**
		Dilution Factor: 1				
Magnesium	**193000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ810C**
		Dilution Factor: 1				
Manganese	**635**	**15.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ810D**
		Dilution Factor: 1				
Nickel	**46.3**	**40.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ810E**
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJDJ810F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ810G
		Dilution Factor: 1				
Sodium	**1040000** *	**50000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ810H**
		Dilution Factor: 10				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ810J
		Dilution Factor: 1				
Zinc	**28.2**	**20.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ810K**
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

TOTAL Metals

Lot-Sample #...: H8F260206-004 Matrix.....: WATER
Date Sampled...: 06/25/98 Date Received..: 06/26/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195236						
Mercury	0.25	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJDJ110V
		Dilution Factor: 1				
Prep Batch #...: 8197298						
Aluminum	38500	200	ug/L	SW846 6010A	07/17-07/18/98	CJDJ1105
		Dilution Factor: 1				
Arsenic	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110Q
		Dilution Factor: 4				
Lead	28.9	12.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110R
		Dilution Factor: 4				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ1106
		Dilution Factor: 1				
Barium	217	200	ug/L	SW846 6010A	07/17-07/18/98	CJDJ1107
		Dilution Factor: 1				
Selenium	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110T
		Dilution Factor: 4				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ1108
		Dilution Factor: 1				
Thallium	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110U
		Dilution Factor: 4				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ1109
		Dilution Factor: 1				
Calcium	555000	5000	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110A
		Dilution Factor: 1				
Chromium	58.7	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110C
		Dilution Factor: 1				
Cobalt	173	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110D
		Dilution Factor: 1				
Copper	153	25.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110E
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

TOTAL Metals

Lot-Sample #...: H8F260206-004 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	73000	100 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110F
Magnesium	178000	5000 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110G
Manganese	2470	15.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110H
Nickel	134	40.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110J
Potassium	7640	5000 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110K
Silver	ND	10.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110L
Sodium	1060000	25000 Dilution Factor: 5	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110M
Vanadium	113	50.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110N
Zinc	265	20.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJDJ110P

IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

DISSOLVED Metals

Lot-Sample #...: H8F260206-009 **Matrix.....:** WATER
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195237						
Mercury	ND	0.20 Dilution Factor: 1	ug/L	SW846 7470A	07/14-07/15/98	CJDJ910Q
Prep Batch #...: 8197302						
Aluminum	**1350**	**400** Dilution Factor: 2	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ9101**
Arsenic	ND	40.0 Dilution Factor: 4	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910L
Lead	ND	12.0 Dilution Factor: 4	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910M
Antimony	ND	120 Dilution Factor: 2	ug/L	SW846 6010A	07/17-07/18/98	CJDJ9102
Barium	ND	400 Dilution Factor: 2	ug/L	SW846 6010A	07/17-07/18/98	CJDJ9103
Selenium	ND	20.0 Dilution Factor: 4	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910N
Beryllium	ND	10.0 Dilution Factor: 2	ug/L	SW846 6010A	07/17-07/18/98	CJDJ9104
Thallium	ND	40.0 Dilution Factor: 4	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910P
Cadmium	ND	10.0 Dilution Factor: 2	ug/L	SW846 6010A	07/17-07/18/98	CJDJ9105
Calcium	**301000**	**10000** Dilution Factor: 2	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ9106**
Chromium	**32.9**	**20.0** Dilution Factor: 2	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ9107**
Cobalt	**142**	**100** Dilution Factor: 2	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ9108**
Copper	**94.6**	**50.0** Dilution Factor: 2	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJDJ9109**

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8770

DISSOLVED Metals

mple #...: H8F260206-009 Matrix.....: WATER 'ATER

:TER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #	'ORK ›RDER #
	2600	200	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910A	
		Dilution Factor: 2					:JEEC10U
;ium	145000	10000	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910C	
		Dilution Factor: 2					
ıese	891	30.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910D	
		Dilution Factor: 2					:JEEC104
.	ND	80.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910E	
		Dilution Factor: 2					:JEEC10P
;ium	ND	10000	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910F	
		Dilution Factor: 2					:JEEC10Q
-	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910G	
		Dilution Factor: 2					:JEEC105
ı	993000	10000	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910H	
		Dilution Factor: 2					:JEEC106
.um	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910J	
		Dilution Factor: 2					:JEEC10R
	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJDJ910K	
		Dilution Factor: 2					:JEEC107
							:JEEC10T
							:JEEC108
							:JEEC109
							:JEEC10A
							:JEEC10C
							:JEEC10D

IT CORPORATION - KNOXVILLE

Client Sample ID: 8370

TOTAL Metals

Lot-Sample #...: H8F290101-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**123000**	**100**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEEC10E**
		Dilution Factor: 1				
Magnesium	**105000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEEC10F**
		Dilution Factor: 1				
Manganese	**3310**	**15.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEEC10G**
		Dilution Factor: 1				
Nickel	**220**	**40.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEEC10H**
		Dilution Factor: 1				
Potassium	**17100**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEEC10J**
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEC10K
		Dilution Factor: 1				
Sodium	**182000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEEC10L**
		Dilution Factor: 1				
Vanadium	**125**	**50.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEEC10M**
		Dilution Factor: 1				
Zinc	**411**	**20.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEEC10N**
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 8370

DISSOLVED Metals

Lot-Sample #...: H8F290101-006 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195237						
Mercury	ND	0.20 Dilution Factor: 1	ug/L	SW846 7470A	07/14-07/15/98	CJEFA10Q
Prep Batch #...: 8197302						
Aluminum	ND	200 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJEFA101
Arsenic	ND	20.0 Dilution Factor: 2	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10L
Lead	ND	6.0 Dilution Factor: 2	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10M
Antimony	ND	60.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJEFA102
Barium	ND	200 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJEFA103
Selenium	ND	10.0 Dilution Factor: 2	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10N
Beryllium	ND	5.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJEFA104
Thallium	ND	20.0 Dilution Factor: 2	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10P
Cadmium	ND	5.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJEFA105
Calcium	**364000**	**5000** Dilution Factor: 1	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFA106**
Chromium	ND	10.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJEFA107
Cobalt	ND	50.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJEFA108
Copper	ND	25.0 Dilution Factor: 1	ug/L	SW846 6010A	07/17-07/18/98	CJEFA109

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8370

DISSOLVED Metals

Lot-Sample #...: H8F290101-006 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10A
		Dilution Factor: 1				
Magnesium	**71400**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFA10C**
		Dilution Factor: 1				
Manganese	**480**	**15.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFA10D**
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10E
		Dilution Factor: 1				
Potassium	**6170**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFA10F**
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10G
		Dilution Factor: 1				
Sodium	**185000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFA10H**
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10J
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFA10K
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

TOTAL Metals

Lot-Sample #...: H8F290101-002 Matrix.....: WATER
Date Sampled...: 06/26/98 Date Received..: 06/27/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195236						
Mercury	0.24	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJEEJ10U
		Dilution Factor: 1				
Prep Batch #...: 8197298						
Aluminum	59700	200	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ104
		Dilution Factor: 1				
Arsenic	56.2	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10P
		Dilution Factor: 2				
Lead	68.3	6.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10Q
		Dilution Factor: 2				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ105
		Dilution Factor: 1				
Barium	386	200	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ106
		Dilution Factor: 1				
Selenium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10R
		Dilution Factor: 2				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ107
		Dilution Factor: 1				
Thallium	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10T
		Dilution Factor: 2				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ108
		Dilution Factor: 1				
Calcium	982000	10000	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ109
		Dilution Factor: 2				
Chromium	96.8	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10A
		Dilution Factor: 1				
Cobalt	85.2	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10C
		Dilution Factor: 1				
Copper	214	25.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10D
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

TOTAL Metals

Lot-Sample #...: H8F290101-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	137000	100	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10E
		Dilution Factor: 1				
Magnesium	242000	5000	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10F
		Dilution Factor: 1				
Manganese	4840	15.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10G
		Dilution Factor: 1				
Nickel	249	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10H
		Dilution Factor: 1				
Potassium	20500	5000	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10J
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10K
		Dilution Factor: 1				
Sodium	503000	5000	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10L
		Dilution Factor: 1				
Vanadium	161	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10M
		Dilution Factor: 1				
Zinc	467	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJEEJ10N
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

DISSOLVED Metals

Lot-Sample #...: H8F290101-007 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/27/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195237						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJEFC10Q
		Dilution Factor: 1				
Prep Batch #...: 8197302						
Aluminum	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJEFC101
		Dilution Factor: 1				
Arsenic	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC10L
		Dilution Factor: 2				
Lead	ND	6.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC10M
		Dilution Factor: 2				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC102
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJEFC103
		Dilution Factor: 1				
Selenium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC10N
		Dilution Factor: 2				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC104
		Dilution Factor: 1				
Thallium	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC10P
		Dilution Factor: 2				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC105
		Dilution Factor: 1				
Calcium	**395000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFC106**
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC108
		Dilution Factor: 1				
Copper	**67.0**	**25.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFC109**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8530

DISSOLVED Metals

Lot-Sample #...: H8F290101-007 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**121**	**100**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFC10A**
		Dilution Factor: 1				
Magnesium	**80100**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFC10C**
		Dilution Factor: 1				
Manganese	**1070**	**15.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFC10D**
		Dilution Factor: 1				
Nickel	**62.0**	**40.0**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFC10E**
		Dilution Factor: 1				
Potassium	**10200**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFC10F**
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC10G
		Dilution Factor: 1				
Sodium	**614000**	**5000**	**ug/L**	**SW846 6010A**	**07/17-07/18/98**	**CJEFC10H**
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC10J
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJEFC10K
		Dilution Factor: 1				

IT CORPORATION - KNOXVILLE

Client Sample ID: 9039

TOTAL Metals

Lot-Sample #...: H8F290120-001 **Matrix.....:** WATER
Date Sampled...: 06/26/98 **Date Received..:** 06/29/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8195236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJENX10V
		Dilution Factor: 1				
Prep Batch #...: 8197298						
Aluminum	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJENX105
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10Q
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10R
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX106
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJENX107
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10T
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX108
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10U
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX109
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJENX10A
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10C
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10D
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10E
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 9039

TOTAL Metals

Lot-Sample #...: H8F290120-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJENX10F
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJENX10G
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10H
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10J
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJENX10K
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10L
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJENX10M
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10N
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJENX10P
		Dilution Factor: 1				

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB034 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G140000-236 **Prep Batch #...:** 8195236						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJQPJ101
		Dilution Factor: 1				
MB Lot-Sample #: H8G160000-298 **Prep Batch #...:** 8197298						
Aluminum	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJV1X108
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X101
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10N
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJV1X102
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X103
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10L
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X104
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJV1X105
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X106
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X107
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10H
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB034 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10J
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10K
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X109
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10A
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10C
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10D
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10E
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10F
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJV1X10G
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: PB034 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G140000-237 **Prep Batch #...:** 8195237						
Mercury	ND	0.20	ug/L	SW846 7470A	07/14-07/15/98	CJQQ2101
		Dilution Factor: 1				
MB Lot-Sample #: H8G160000-302 **Prep Batch #...:** 8197302						
Aluminum	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJV2E108
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10H
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E109
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10J
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10A
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E101
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E102
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJV2E103
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E104
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E105
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E106
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: PB034 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	100	ug/L	SW846 6010A	07/17-07/18/98	CJV2E107
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10K
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10L
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10M
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10C
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10D
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10E
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10F
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010A	07/17-07/18/98	CJV2E10G
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB034 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F250216-001 **Prep Batch #...:** 8195236							
Mercury	117	(70 - 129)			SW846 7470A	07/14-07/15/98	CJCEW12F
	116	(70 - 129)	0.80	(0-20)	SW846 7470A	07/14-07/15/98	CJCEW12G
		Dilution Factor: 1					
MS Lot-Sample #: H8F250216-001 **Prep Batch #...:** 8197298							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW108
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJCEW109
		Dilution Factor: 1					
Arsenic	107	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW122
	95	(80 - 120)	11	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW123
		Dilution Factor: 2					
Antimony	129 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW10C
	119	(80 - 120)	8.2	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW10D
		Dilution Factor: 1					
Lead	104	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW125
	93	(80 - 120)	11	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW126
		Dilution Factor: 2					
Barium	102	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW10F
	94	(80 - 120)	7.9	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW10G
		Dilution Factor: 1					
Selenium	107	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW128
	95	(80 - 120)	12	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW129
		Dilution Factor: 2					
Beryllium	112	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW10J
	102	(80 - 120)	8.8	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW10K
		Dilution Factor: 1					
Thallium	97	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW12C
	86	(80 - 120)	12	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW12D
		Dilution Factor: 2					
Cadmium	114	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW10M
	103	(80 - 120)	10	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW10N
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB034 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW10Q
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJCEW10R
		Dilution Factor: 1					
Chromium	110	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW10U
	102	(80 - 120)	6.7	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW10V
		Dilution Factor: 1					
Cobalt	106	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW10X
	98	(80 - 120)	8.0	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW110
		Dilution Factor: 1					
Copper	109	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW112
	103	(80 - 120)	4.5	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW113
		Dilution Factor: 1					
Iron	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW115
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJCEW116
		Dilution Factor: 1					
Magnesium	135 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW118
	121 N	(80 - 120)	4.2	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW119
		Dilution Factor: 1					
Manganese	117	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW11C
	108	(80 - 120)	3.3	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW11D
		Dilution Factor: 1					
Nickel	104	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW11F
	96	(80 - 120)	7.3	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW11G
		Dilution Factor: 1					
Potassium	116	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW11J
	108	(80 - 120)	6.6	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW11K
		Dilution Factor: 1					
Silver	103	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW11M
	101	(80 - 120)	1.9	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW11N
		Dilution Factor: 1					
Sodium	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW11Q
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJCEW11R
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB034 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	105	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW11U
	97	(80 - 120)	6.9	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW11V
		Dilution Factor: 1					
Zinc	109	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCEW11X
	102	(80 - 120)	5.5	(0-20)	SW846 6010A	07/17-07/18/98	CJCEW120
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB034 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F250216-006 **Prep Batch #...:** 8195237							
Mercury	119	(70 - 129)			SW846 7470A	07/14-07/15/98	CJCF3128
	103	(70 - 129)	14	(0-20)	SW846 7470A	07/14-07/15/98	CJCF3129
		Dilution Factor: 1					
MS Lot-Sample #: H8F250216-006 **Prep Batch #...:** 8197302							
Aluminum	120	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF3102
	113	(80 - 120)	6.0	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3103
		Dilution Factor: 1					
Arsenic	117	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF311U
	109	(80 - 120)	7.2	(0-20)	SW846 6010A	07/17-07/18/98	CJCF311V
		Dilution Factor: 2					
Antimony	140 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF3105
	131 N	(80 - 120)	6.0	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3106
		Dilution Factor: 1					
Lead	113	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF311X
	106	(80 - 120)	6.4	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3120
		Dilution Factor: 2					
Barium	113	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF3108
	107	(80 - 120)	5.6	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3109
		Dilution Factor: 1					
Selenium	116	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF3122
	108	(80 - 120)	6.8	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3123
		Dilution Factor: 2					
Beryllium	122 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF310C
	116	(80 - 120)	5.4	(0-20)	SW846 6010A	07/17-07/18/98	CJCF310D
		Dilution Factor: 1					
Thallium	108	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF3125
	102	(80 - 120)	6.4	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3126
		Dilution Factor: 2					
Cadmium	122 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF310F
	118	(80 - 120)	3.5	(0-20)	SW846 6010A	07/17-07/18/98	CJCF310G
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB034 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF310J
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJCF310K
		Dilution Factor: 1					
Chromium	120	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF310M
	113	(80 - 120)	6.1	(0-20)	SW846 6010A	07/17-07/18/98	CJCF310N
		Dilution Factor: 1					
Cobalt	118	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF310Q
	111	(80 - 120)	6.0	(0-20)	SW846 6010A	07/17-07/18/98	CJCF310R
		Dilution Factor: 1					
Copper	122 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF310U
	112	(80 - 120)	7.2	(0-20)	SW846 6010A	07/17-07/18/98	CJCF310V
		Dilution Factor: 1					
Iron	114	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF310X
	107	(80 - 120)	5.9	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3110
		Dilution Factor: 1					
Magnesium	139 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF3112
	127 N	(80 - 120)	4.8	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3113
		Dilution Factor: 1					
Manganese	116	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF3115
	109	(80 - 120)	5.1	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3116
		Dilution Factor: 1					
Nickel	117	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF3118
	109	(80 - 120)	7.5	(0-20)	SW846 6010A	07/17-07/18/98	CJCF3119
		Dilution Factor: 1					
Potassium	125 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF311C
	118	(80 - 120)	5.5	(0-20)	SW846 6010A	07/17-07/18/98	CJCF311D
		Dilution Factor: 1					
Silver	113	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF311F
	111	(80 - 120)	2.4	(0-20)	SW846 6010A	07/17-07/18/98	CJCF311G
		Dilution Factor: 1					
Sodium	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF311J
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJCF311K
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB034 **Matrix.....:** WATER
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	115	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF311M
	108	(80 - 120)	5.9	(0-20)	SW846 6010A	07/17-07/18/98	CJCF311N
		Dilution Factor: 1					
Zinc	118	(80 - 120)			SW846 6010A	07/17-07/18/98	CJCF311Q
	112	(80 - 120)	5.6	(0-20)	SW846 6010A	07/17-07/18/98	CJCF311R
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB034 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8G140000-236 **Prep Batch #...:** 8195236					
Mercury	108	(80 - 120)	SW846 7470A	07/14-07/15/98	CJQPJ102
		Dilution Factor: 1			
LCS Lot-Sample#: H8G160000-298 **Prep Batch #...:** 8197298					
Antimony	116	(87 - 120)	SW846 6010A	07/17-07/18/98	CJV1X10Q
		Dilution Factor: 1			
Barium	98	(82 - 112)	SW846 6010A	07/17-07/18/98	CJV1X10R
		Dilution Factor: 1			
Beryllium	107	(80 - 120)	SW846 6010A	07/17-07/18/98	CJV1X10T
		Dilution Factor: 1			
Cadmium	106	(81 - 118)	SW846 6010A	07/17-07/18/98	CJV1X10U
		Dilution Factor: 1			
Calcium	108	(82 - 120)	SW846 6010A	07/17-07/18/98	CJV1X10V
		Dilution Factor: 1			
Chromium	106	(80 - 120)	SW846 6010A	07/17-07/18/98	CJV1X10W
		Dilution Factor: 1			
Cobalt	105	(83 - 115)	SW846 6010A	07/17-07/18/98	CJV1X10X
		Dilution Factor: 1			
Magnesium	106	(82 - 120)	SW846 6010A	07/17-07/18/98	CJV1X11A
		Dilution Factor: 1			
Thallium	94	(80 - 110)	SW846 6010A	07/17-07/18/98	CJV1X11C
		Dilution Factor: 1			
Arsenic	100	(82 - 110)	SW846 6010A	07/17-07/18/98	CJV1X11D
		Dilution Factor: 1			
Lead	100	(81 - 111)	SW846 6010A	07/17-07/18/98	CJV1X11E
		Dilution Factor: 1			
Selenium	101	(81 - 113)	SW846 6010A	07/17-07/18/98	CJV1X11F
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB034 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	105	(83 - 117)	SW846 6010A	07/17-07/18/98	CJV1X110
		Dilution Factor: 1			
Manganese	101	(86 - 116)	SW846 6010A	07/17-07/18/98	CJV1X111
		Dilution Factor: 1			
Nickel	103	(83 - 120)	SW846 6010A	07/17-07/18/98	CJV1X112
		Dilution Factor: 1			
Potassium	103	(81 - 115)	SW846 6010A	07/17-07/18/98	CJV1X113
		Dilution Factor: 1			
Silver	105	(80 - 120)	SW846 6010A	07/17-07/18/98	CJV1X114
		Dilution Factor: 1			
Sodium	103	(82 - 114)	SW846 6010A	07/17-07/18/98	CJV1X115
		Dilution Factor: 1			
Vanadium	102	(88 - 117)	SW846 6010A	07/17-07/18/98	CJV1X116
		Dilution Factor: 1			
Zinc	104	(85 - 120)	SW846 6010A	07/17-07/18/98	CJV1X117
		Dilution Factor: 1			
Copper	102	(82 - 116)	SW846 6010A	07/17-07/18/98	CJV1X118
		Dilution Factor: 1			
Iron	103	(87 - 120)	SW846 6010A	07/17-07/18/98	CJV1X119
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB034 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8G140000-237 **Prep Batch #...:** 8195237					
Mercury	107	(80 - 120)	SW846 7470A	07/14-07/15/98	CJQQ2102
		Dilution Factor: 1			
LCS Lot-Sample#: H8G160000-302 **Prep Batch #...:** 8197302					
Beryllium	109	(80 - 120)	SW846 6010A	07/17-07/18/98	CJV2E10Q
		Dilution Factor: 1			
Cadmium	109	(81 - 118)	SW846 6010A	07/17-07/18/98	CJV2E10R
		Dilution Factor: 1			
Calcium	110	(82 - 120)	SW846 6010A	07/17-07/18/98	CJV2E10T
		Dilution Factor: 1			
Chromium	108	(80 - 120)	SW846 6010A	07/17-07/18/98	CJV2E10U
		Dilution Factor: 1			
Cobalt	107	(83 - 115)	SW846 6010A	07/17-07/18/98	CJV2E10V
		Dilution Factor: 1			
Copper	102	(82 - 116)	SW846 6010A	07/17-07/18/98	CJV2E10W
		Dilution Factor: 1			
Iron	104	(87 - 120)	SW846 6010A	07/17-07/18/98	CJV2E10X
		Dilution Factor: 1			
Magnesium	108	(82 - 120)	SW846 6010A	07/17-07/18/98	CJV2E11A
		Dilution Factor: 1			
Manganese	103	(86 - 116)	SW846 6010A	07/17-07/18/98	CJV2E11C
		Dilution Factor: 1			
Nickel	104	(83 - 120)	SW846 6010A	07/17-07/18/98	CJV2E11D
		Dilution Factor: 1			
Selenium	105	(81 - 113)	SW846 6010A	07/17-07/18/98	CJV2E11E
		Dilution Factor: 1			
Thallium	97	(80 - 110)	SW846 6010A	07/17-07/18/98	CJV2E11F
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: PB034 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	103	(83 - 117)	SW846 6010A	07/17-07/18/98	CJV2E110
		Dilution Factor: 1			
Antimony	119	(87 - 120)	SW846 6010A	07/17-07/18/98	CJV2E111
		Dilution Factor: 1			
Barium	100	(82 - 112)	SW846 6010A	07/17-07/18/98	CJV2E112
		Dilution Factor: 1			
Potassium	106	(81 - 115)	SW846 6010A	07/17-07/18/98	CJV2E113
		Dilution Factor: 1			
Silver	106	(80 - 120)	SW846 6010A	07/17-07/18/98	CJV2E114
		Dilution Factor: 1			
Sodium	104	(82 - 114)	SW846 6010A	07/17-07/18/98	CJV2E115
		Dilution Factor: 1			
Vanadium	105	(88 - 117)	SW846 6010A	07/17-07/18/98	CJV2E116
		Dilution Factor: 1			
Zinc	106	(85 - 120)	SW846 6010A	07/17-07/18/98	CJV2E117
		Dilution Factor: 1			
Arsenic	103	(82 - 110)	SW846 6010A	07/17-07/18/98	CJV2E118
		Dilution Factor: 1			
Lead	102	(81 - 111)	SW846 6010A	07/17-07/18/98	CJV2E119
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB034

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	DISS	TOTAL	EXP	
				8260A	8270B	8081	6010A	6010A	8330	
1	6/25/98	H8F250216	8170	QC			QC	QC	QC	
2			8250	X					X	
3			8251	X					X	
4			8330	X					X	
5			9035	X						
6	6/26/98	H8F260206	8130	X					X	
7			8250B		X		X	X		
8			8730	X	X	X	X	X	X	
9			8770	X	X	X	X	X	X	
10			9037	X						
11			7630R			X			X	
12	6/27/98	H8F290101	8370	X	X		X	X	X	
13			8530	X	X		X	X	X	
14			8690	X					X	
15			8850	X					X	
16			9038	X						
17	6/29/98	H8F290120	9039	X	X	X		X	X	
18										
19										
20										

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: WATER
ANALYTICAL DUE: 7-17-98
REPORT DUE: 7-22-98
CLOSED?_YES___

8/5/98 12:59 PM

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: JT CORP PROJECT: PLYMBRDOK Lot No.: H8F250216

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?		✓	
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6-25-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : [signature] DATE: 6/25/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
8250	8260A	3B	1 OF 3 RECEIVED BROKEN
ALL	ALL	2A	TEMP BLANK FROZEN
			*Process received

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/25/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = TEMP BLANK FROZEN
	2b Cooler Temp = 4°C
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PBOW Lot No.: HJF250206

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:			
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?	✓		
3. Contract/Subcontract Review:			
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:			
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:			
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/29/98

QA016R7.doc, 01/29/98

H8F250216

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062498QESK

Project Number: 773701

Samples Shipment Date: 24-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850101

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | Flammable | Skin Irritant | Poison B | Unknown X

Sample Disposal:

Return to Client | Disposal by Lab X | Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/24/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) K. Woolcock QES Date: 6-25-98 Time: 10:00

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L LITER TOTAL METALS; 1L FILTERED METALS

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8170	PBOW-98-GW-WARP-DP02-8170	24-JUN-98	12:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N	pH<2	Rec'd w/custody seals intact @ 4°C 6-25-98
8170	PBOW-98-GW-WARP-DP02-8170	24-JUN-98	12:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8170	PBOW-98-GW-WARP-DP02-8170	24-JUN-98	12:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8170-MS	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N	pH<2	
8170-MS	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8170-MS	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8170-MSD	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in	N	pH<2	

H8F250216

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062498QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							water			
8170-MSD	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8170-MSD	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8180	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8180	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8180	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8180	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8180MS	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8180MS	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8180MS	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8180MS	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8180MSD	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8180MSD	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8180MSD	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8180MSD	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8181	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8181	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8181	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8181	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8190	PBOW-98-SO-WARP-DP03-8190-(040	23-JUN-98	14:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8190	PBOW-98-SO-WARP-DP03-8190-(040	23-JUN-98	14:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8200	PBOW-98-SO-WARP-DP03-8200-(091	23-JUN-98	14:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8200	PBOW-98-SO-WARP-DP03-8200-(091	23-JUN-98	14:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8220	PBOW-98-SO-WARP-DP04-8220-(000	23-JUN-98	15:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8220	PBOW-98-SO-WARP-DP04-8220-(000	23-JUN-98	15:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8230	PBOW-98-SO-WARP-DP04-8230-(040	23-JUN-98	15:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8230	PBOW-98-SO-WARP-DP04-8230-(040	23-JUN-98	15:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8240	PBOW-98-SO-WARP-DP04-8240-(091	23-JUN-98	16:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8240	PBOW-98-SO-WARP-DP04-8240-(091	23-JUN-98	16:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8240	PBOW-98-SO-WARP-DP04-8240-(091	23-JUN-98	16:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8240	PBOW-98-SO-WARP-DP04-8240-(091	23-JUN-98	16:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8250	PBOW-98-GW-WARP-DP04-8250	24-JUN-98	15:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

H8F250216

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062498QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8250	PBOW-98-GW-WARP-DP04-8250	24-JUN-98	15:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		2 VIALS BROKEN SKW 6-25-98
8251	PBOW-98-GW-WARP-DP04-8250	24-JUN-98	15:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8251	PBOW-98-GW-WARP-DP04-8250	24-JUN-98	15:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8330	PBOW-98-GW-WARP-DP06-8330	23-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8330	PBOW-98-GW-WARP-DP06-8330	23-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8660	PBOW-98-SO-WARP-DP15-8660-(000	24-JUN-98	10:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8660	PBOW-98-SO-WARP-DP15-8660-(000	24-JUN-98	10:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8670	PBOW-98-SO-WARP-DP15-8670-(040	24-JUN-98	10:55	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8670	PBOW-98-SO-WARP-DP15-8670-(040	24-JUN-98	10:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8670	PBOW-98-SO-WARP-DP15-8670-(040	24-JUN-98	10:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8670	PBOW-98-SO-WARP-DP15-8670-(040	24-JUN-98	10:55	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8680	PBOW-98-SO-WARP-DP15-8680-(091	24-JUN-98	11:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8680	PBOW-98-SO-WARP-DP15-8680-(091	24-JUN-98	11:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8700	PBOW-98-SO-WARP-DP16-8700-(000	24-JUN-98	13:35	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8700	PBOW-98-SO-WARP-DP16-8700-(000	24-JUN-98	13:35	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8700	PBOW-98-SO-WARP-DP16-8700-(000	24-JUN-98	13:35	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8700	PBOW-98-SO-WARP-DP16-8700-(000	24-JUN-98	13:35	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8710	PBOW-98-SO-WARP-DP16-8710-(040	24-JUN-98	13:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8710	PBOW-98-SO-WARP-DP16-8710-(040	24-JUN-98	13:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8720	PBOW-98-SO-WARP-DP16-8720-(091	24-JUN-98	13:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8720	PBOW-98-SO-WARP-DP16-8720-(091	24-JUN-98	13:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8820	PBOW-98-SO-WARP-DP19-8820-(000	24-JUN-98	09:05	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8820	PBOW-98-SO-WARP-DP19-8820-(000	24-JUN-98	09:05	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8820	PBOW-98-SO-WARP-DP19-8820-(000	24-JUN-98	09:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8820	PBOW-98-SO-WARP-DP19-8820-(000	24-JUN-98	09:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8830	PBOW-98-SO-WARP-DP19-8830-(040	24-JUN-98	09:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8830	PBOW-98-SO-WARP-DP19-8830-(040	24-JUN-98	09:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8840	PBOW-98-SO-WARP-DP19-8840-(091	24-JUN-98	09:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8840	PBOW-98-SO-WARP-DP19-8840-(091	24-JUN-98	09:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8860	PBOW-98-SO-WARP-DP20-8860-(000	24-JUN-98	09:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8860	PBOW-98-SO-WARP-DP20-8860-(000	24-JUN-98	09:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8870	PBOW-98-SO-WARP-DP20-8870-(040	24-JUN-98	10:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		

H8F250216

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062498QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8870	PBOW-98-SO-WARP-DP20-8870-(040	24-JUN-98	10:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8870	PBOW-98-SO-WARP-DP20-8870-(040	24-JUN-98	10:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8870	PBOW-98-SO-WARP-DP20-8870-(040	24-JUN-98	10:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8880	PBOW-98-SO-WARP-DP20-8880-(091	24-JUN-98	10:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8880	PBOW-98-SO-WARP-DP20-8880-(091	24-JUN-98	10:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
9035		24-JUN-98	10:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: Plumbrook Lot No.: H8F260206

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: Bryan Blomquist DATE: 6/26/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			✓

PROJECT MANAGER : JT DATE: 6/26/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNO PROJECT: PBSW Lot No.: H8F260206

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?			✓
c. If SDG is complete, has the due date been revised & marked closed?			
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/29/98

Quote #23581

H8F260206

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062598QESK

Project Number: 773701

Samples Shipment Date: 25-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850112

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/25/98 Time: 1800

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) [signature] Date: 6/26/98 Time: 0930

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd @ 5 °C
w/ custody Seals Intact
BPB 6/26/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8130	PBOW-98-GW-WARP-DP01-8130	25-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8130	PBOW-98-GW-WARP-DP01-8130	25-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8250B	PBOW-98-GW-WARP-DP04-8250	25-JUN-98	12:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7471 in soil	N		pH<2
8250B	PBOW-98-GW-WARP-DP04-8250	25-JUN-98	12:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		

H8F260206

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8740	PBOW-98-SO-WARP-DP17-8740-(000	25-JUN-98	14:15	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8740	PBOW-98-SO-WARP-DP17-8740-(000	25-JUN-98	14:15	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8750	PBOW-98-SO-WARP-DP17-8750-(040	25-JUN-98	14:20	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8750	PBOW-98-SO-WARP-DP17-8750-(040	25-JUN-98	14:20	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8750	PBOW-98-SO-WARP-DP17-8750-(040	25-JUN-98	14:20	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8750	PBOW-98-SO-WARP-DP17-8750-(040	25-JUN-98	14:20	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8760	PBOW-98-SO-WARP-DP17-8760-(091	25-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8760	PBOW-98-SO-WARP-DP17-8760-(091	25-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2
8780	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8780	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8780	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8780	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8780-MS	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8780-MS	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8780-MS	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8780-MS	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8780-MSD	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8780-MSD	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8780-MSD	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8780-MSD	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8781	PBOW-98-SO-WARP-DP18-8781-(000	25-JUN-98	15:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8781	PBOW-98-SO-WARP-DP18-8781-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8781	PBOW-98-SO-WARP-DP18-8781-(000	25-JUN-98	15:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8781	PBOW-98-SO-WARP-DP18-8781-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8790	PBOW-98-SO-WARP-DP18-8790-(040	25-JUN-98	15:40	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8790	PBOW-98-SO-WARP-DP18-8790-(040	25-JUN-98	15:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8800	PBOW-98-WARP--WARP-DP18-8800	25-JUN-98	15:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8800	PBOW-98-WARP--WARP-DP18-8800	25-JUN-98	15:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
9037		25-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

H8F260206

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-062598QESK

Project Number: 773701

Samples Shipment Date: 25-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850112

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown X

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/25/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client | | Disposal by Lab X Archive (mos.)

1. Received By (Signature/Affiliation) [signature] Date: 6/26/98 Time: 0930

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd @ 5 °C
w/custody seals
Intact BPB 6/26/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7360R	PBOW-98-SO-PRRP-DP05-7360-(0001	25-JUN-98	10:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7360R	PBOW-98-SO-PRRP-DP05-7360-(0001	25-JUN-98	10:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7380R	PBOW-98-SO-PRRP-DP05-7360-(0001	25-JUN-98	10:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7380R	PBOW-98-SO-PRRP-DP05-7360-(0001	25-JUN-98	10:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7520R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7520R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F260706

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-062598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7530R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530R-MS	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530R-MS	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530R-MS	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530R-MS	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530R-MSD	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530R-MSD	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530R-MSD	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530R-MSD	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7531R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7531R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7531R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7531R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7540R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7540R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
✓7630R	PBOW-98-GW-PRRP-DP11-7630	25-JUN-98	15:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
✓7630R	PBOW-98-GW-PRRP-DP11-7630	25-JUN-98	15:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: JT CORP PROJECT: PLUMBROOK Lot No.: HFF290101

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6-29-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			✓
b. Informed Login associates of special instructions ?			✓

2. If custody seals were missing/not intact, was client notified? ✓

PROJECT MANAGER : [signature] DATE: 6/29/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
ALL	ALL	2A	Pieces are received

☐ Client informed on _____ by _____. Person contacted: _____.
☑ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/29/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = RECEIVED FROZEN
	2b Cooler Temp = 3°C
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PBdW Lot No.: H8F290101

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?			
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		✓
d. Has the correct fax due date been assigned to the lot?			
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?		✓	
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/30/98

QA016R7.doc, 01/29/98

H8F290101

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062698QESK

Project Number: 773701

Samples Shipment Date: 26-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Tumaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850123

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

1. Relinquished By (Signature/Affiliation) — Date: 6/26/98 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

Sample Disposal:

Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Received By (Signature/Affiliation) — Date: 6-27-98 Time: 09:30
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Custody seals intact
received at 3°C
BKO 6-27-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8340	PBOW-98-SO-WARP-DP07-8340-(000	25-JUN-98	15:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8340	PBOW-98-SO-WARP-DP07-8340-(000	25-JUN-98	15:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8350	PBOW-98-SO-WARP-DP07-8350-(040	25-JUN-98	15:50	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8350	PBOW-98-SO-WARP-DP07-8350-(040	25-JUN-98	15:50	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8350	PBOW-98-SO-WARP-DP07-8350-(040	25-JUN-98	15:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8350	PBOW-98-SO-WARP-DP07-8350-(040	25-JUN-98	15:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8360	PBOW-98-SO-WARP-DP07-8360-(091	25-JUN-98	15:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8360	PBOW-98-SO-WARP-DP07-8360-(091	25-JUN-98	15:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

H8F290101

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062698QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8370	PBOW-98-GW-WARP-DP07-8370	26-JUN-98	14:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8370	PBOW-98-GW-WARP-DP07-8370	26-JUN-98	14:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8370	PBOW-98-GW-WARP-DP07-8370	26-JUN-98	14:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2
8370	PBOW-98-GW-WARP-DP07-8370	26-JUN-98	14:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8460	PBOW-98-SO-WARP-DP10-8460-(000	26-JUN-98	10:30	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8460	PBOW-98-SO-WARP-DP10-8460-(000	26-JUN-98	10:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8460	PBOW-98-SO-WARP-DP10-8460-(000	26-JUN-98	10:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8460	PBOW-98-SO-WARP-DP10-8460-(000	26-JUN-98	10:30	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8470	PBOW-98-SO-WARP-DP10-8470-(040	26-JUN-98	10:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8470	PBOW-98-SO-WARP-DP10-8470-(040	26-JUN-98	10:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8500	PBOW-98-SO-WARP-DP11-8500-(000	25-JUN-98	16:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8500	PBOW-98-SO-WARP-DP11-8500-(000	25-JUN-98	16:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8500	PBOW-98-SO-WARP-DP11-8500-(000	25-JUN-98	16:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8500	PBOW-98-SO-WARP-DP11-8500-(000	25-JUN-98	16:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8510	PBOW-98-SO-WARP-DP11-8510-(040	25-JUN-98	16:25	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8510	PBOW-98-SO-WARP-DP11-8510-(040	25-JUN-98	16:25	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8520	PBOW-98-SO-WARP-DP11-8520-(091	25-JUN-98	16:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8520	PBOW-98-SO-WARP-DP11-8520-(091	25-JUN-98	16:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8530	PBOW-98-GW-WARP-DP11-8530	26-JUN-98	14:30	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		pH<2
8530	PBOW-98-GW-WARP-DP11-8530	26-JUN-98	14:30	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8530	PBOW-98-GW-WARP-DP11-8530	26-JUN-98	14:30	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8530	PBOW-98-GW-WARP-DP11-8530	26-JUN-98	14:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8690	PBOW-98-GW-WARP-DP15-8690	26-JUN-98	09:30	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8690	PBOW-98-GW-WARP-DP15-8690	26-JUN-98	09:30	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8850	PBOW-98-GW-WARP-DP19-8850	26-JUN-98	10:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8850	PBOW-98-GW-WARP-DP19-8850	26-JUN-98	10:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
9038		26-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT CORP PROJECT: PLUMBROOK Lot No.: H8F290120

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6-29-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			

2. If custody seals were missing/not intact, was client notified?

PROJECT MANAGER : [signature] DATE: 6/29/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: I.T. KNX PROJECT: PBOW Lot No.: H8F290120

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?	✓		
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/29/98

QA016R7.doc, 01/29/98

H8F290120

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062798QESK

Special Instructions: Samples Shipment Date:

Possible Hazard Indentification:

Non-hazard | Flammable | Skin Irritant | Poison B | Unknown X

Sample Disposal:

Return to Client | Disposal by Lab X | Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/22/98 Time: 1300

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Bryan K Damron Date: 6-29-98 Time: 10:45

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS

Custody seals intact
received at 3°c
BKD 6-29-98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
9039	PBOW-98-ER-9038	26-JUN-98	17:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		
9039		26-JUN-98	17:00	1 L Amb. Glass	2	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
9039		26-JUN-98	17:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
9039		26-JUN-98	17:00	1 L HDPE	1	HNO3, pH<2	TAL Metals by SW-846 6010A/7471 in soil	N		PM+2
9039		26-JUN-98	17:00	1 L Amb. Glass	2	None except cool to 4 C	PCBs by SW8081	N		

Quanterra Environmental Services

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

ANALYTICAL REPORT

PROJECT NO. 773701

PBOW-Red Water Ponds
SDG #: PB035

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

August 3, 1998

Quanterra
Environmental Services

SAMPLE SUMMARY

PB035 : H8F250218

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJCFE	001	8180	06/23/98	14:20
CJCFG	002	8181	06/23/98	14:20
CJCFH	003	8190	06/23/98	14:30
CJCFJ	004	8200	06/23/98	14:40
CJCFK	005	8220	06/23/98	15:45
CJCFL	006	8230	06/23/98	15:50
CJCFM	007	8240	06/23/98	16:00
CJCFN	008	8660	06/24/98	10:50
CJCFP	009	8670	06/24/98	10:55
CJCFQ	010	8680	06/24/98	11:00
CJCFR	011	8700	06/24/98	13:35
CJCFT	012	8710	06/24/98	13:40
CJCFV	013	8720	06/24/98	13:45
CJCFW	014	8820	06/24/98	09:05
CJCFX	015	8830	06/24/98	09:10
CJCG1	016	8840	06/24/98	09:15
CJCG2	017	8860	06/24/98	09:55
CJCG3	018	8870	06/24/98	10:00
CJCG4	019	8880	06/24/98	10:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB035

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F250218-001		06/25/98	8180
H8F250218-001	D	06/25/98	8180
H8F250218-001	S	06/25/98	8180
H8F250218-002		06/25/98	8181
H8F250218-003		06/25/98	8190
H8F250218-004		06/25/98	8200
H8F250218-005		06/25/98	8220
H8F250218-006		06/25/98	8230
H8F250218-007		06/25/98	8240
H8F250218-008		06/25/98	8660
H8F250218-009		06/25/98	8670
H8F250218-010		06/25/98	8680
H8F250218-011		06/25/98	8700
H8F250218-012		06/25/98	8710
H8F250218-013		06/25/98	8720
H8F250218-014		06/25/98	8820
H8F250218-015		06/25/98	8830
H8F250218-016		06/25/98	8840
H8F250218-017		06/25/98	8860
H8F250218-018		06/26/98	8870
H8F250218-019		06/25/98	8880

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

PB035

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides and PCBs	SW846 8081
Percent Moisture	MCAWW 160.3 MOD
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Explosives

Laboratory control sample results were outside control limits for TNT. However, matrix spike/matrix spike duplicate recoveries and all sample surrogate recoveries were acceptable, indicating that the problem was confined to the laboratory control sample. Thus, the validity of the sample results is not adversely affected.

Surrogate recovery for sample 8230 was above control limits. However, as there were no target analytes detected in the sample, the data is not adversely affected.

Metals

The results for lead and copper for method blank CJL29 were greater than the reporting limit, but less than 2 times the reporting limit. Lead and copper are considered a common laboratory contaminants

The matrix spike/matrix spike duplicate recoveries and RPDs for sample 8180 were outside control limits for some analytes. However, the laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

The serial dilution of sample 8180 was outside control limits due to physical or chemical matrix interferences.

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Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8180

GC/MS Volatiles

Lot-Sample #...: H8F250218-001 **Work Order #...:** CJCFE102 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**3.9 J,B**	**5.9**	**ug/kg**
Acetone	ND	24	ug/kg
Carbon disulfide	ND	5.9	ug/kg
1,1-Dichloroethene	ND	5.9	ug/kg
1,1-Dichloroethane	ND	5.9	ug/kg
1,2-Dichloroethene (total)	ND	5.9	ug/kg
Chloroform	ND	5.9	ug/kg
1,2-Dichloroethane	ND	5.9	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	5.9	ug/kg
Carbon tetrachloride	ND	5.9	ug/kg
Bromodichloromethane	ND	5.9	ug/kg
1,2-Dichloropropane	ND	5.9	ug/kg
cis-1,3-Dichloropropene	ND	5.9	ug/kg
Trichloroethene	ND	5.9	ug/kg
Dibromochloromethane	ND	5.9	ug/kg
1,1,2-Trichloroethane	ND	5.9	ug/kg
Benzene	ND	5.9	ug/kg
trans-1,3-Dichloropropene	ND	5.9	ug/kg
Bromoform	ND	5.9	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	5.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
Toluene	ND	5.9	ug/kg
Chlorobenzene	ND	5.9	ug/kg
Ethylbenzene	ND	5.9	ug/kg
Styrene	ND	5.9	ug/kg
Xylenes (total)	ND	5.9	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(64 - 135)
Toluene-d8	99	(77 - 124)
4-Bromofluorobenzene	108	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8180

GC/MS Volatiles

Lot-Sample #...: H8F250218-001 **Work Order #...:** CJCFE102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8181

GC/MS Volatiles

Lot-Sample #...: H8F250218-002 **Work Order #...:** CJCFG202 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**4.8 J,B**	**5.9**	**ug/kg**
Acetone	ND	24	ug/kg
Carbon disulfide	ND	5.9	ug/kg
1,1-Dichloroethene	ND	5.9	ug/kg
1,1-Dichloroethane	ND	5.9	ug/kg
1,2-Dichloroethene (total)	ND	5.9	ug/kg
Chloroform	ND	5.9	ug/kg
1,2-Dichloroethane	ND	5.9	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	5.9	ug/kg
Carbon tetrachloride	ND	5.9	ug/kg
Bromodichloromethane	ND	5.9	ug/kg
1,2-Dichloropropane	ND	5.9	ug/kg
cis-1,3-Dichloropropene	ND	5.9	ug/kg
Trichloroethene	ND	5.9	ug/kg
Dibromochloromethane	ND	5.9	ug/kg
1,1,2-Trichloroethane	ND	5.9	ug/kg
Benzene	ND	5.9	ug/kg
trans-1,3-Dichloropropene	ND	5.9	ug/kg
Bromoform	ND	5.9	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	5.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
Toluene	ND	5.9	ug/kg
Chlorobenzene	ND	5.9	ug/kg
Ethylbenzene	ND	5.9	ug/kg
Styrene	ND	5.9	ug/kg
Xylenes (total)	ND	5.9	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(64 - 135)
Toluene-d8	102	(77 - 124)
4-Bromofluorobenzene	109	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8181

GC/MS Volatiles

Lot-Sample #...: H8F250218-002 **Work Order #...:** CJCFG202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8240

GC/MS Volatiles

Lot-Sample #...: H8F250218-007 **Work Order #...:** CJCFM202 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	13	ug/kg
Bromomethane	ND	13	ug/kg
Vinyl chloride	ND	13	ug/kg
Chloroethane	ND	13	ug/kg
Methylene chloride	**2.7 J,B**	**6.4**	**ug/kg**
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.4	ug/kg
1,1-Dichloroethene	ND	6.4	ug/kg
1,1-Dichloroethane	ND	6.4	ug/kg
1,2-Dichloroethene (total)	ND	6.4	ug/kg
Chloroform	ND	6.4	ug/kg
1,2-Dichloroethane	ND	6.4	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.4	ug/kg
Carbon tetrachloride	ND	6.4	ug/kg
Bromodichloromethane	ND	6.4	ug/kg
1,2-Dichloropropane	ND	6.4	ug/kg
cis-1,3-Dichloropropene	ND	6.4	ug/kg
Trichloroethene	ND	6.4	ug/kg
Dibromochloromethane	ND	6.4	ug/kg
1,1,2-Trichloroethane	ND	6.4	ug/kg
Benzene	ND	6.4	ug/kg
trans-1,3-Dichloropropene	ND	6.4	ug/kg
Bromoform	ND	6.4	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.4	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.4	ug/kg
Toluene	**2.5 J**	**6.4**	**ug/kg**
Chlorobenzene	ND	6.4	ug/kg
Ethylbenzene	ND	6.4	ug/kg
Styrene	ND	6.4	ug/kg
Xylenes (total)	ND	6.4	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	82	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8240

GC/MS Volatiles

Lot-Sample #...: H8F250218-007 **Work Order #...:** CJCFM202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8670

GC/MS Volatiles

Lot-Sample #...: H8F250218-009 **Work Order #...:** CJCFP202 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**2.5 J,B**	**5.9**	**ug/kg**
Acetone	ND	24	ug/kg
Carbon disulfide	ND	5.9	ug/kg
1,1-Dichloroethene	ND	5.9	ug/kg
1,1-Dichloroethane	ND	5.9	ug/kg
1,2-Dichloroethene (total)	ND	5.9	ug/kg
Chloroform	ND	5.9	ug/kg
1,2-Dichloroethane	ND	5.9	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	5.9	ug/kg
Carbon tetrachloride	ND	5.9	ug/kg
Bromodichloromethane	ND	5.9	ug/kg
1,2-Dichloropropane	ND	5.9	ug/kg
cis-1,3-Dichloropropene	ND	5.9	ug/kg
Trichloroethene	ND	5.9	ug/kg
Dibromochloromethane	ND	5.9	ug/kg
1,1,2-Trichloroethane	ND	5.9	ug/kg
Benzene	ND	5.9	ug/kg
trans-1,3-Dichloropropene	ND	5.9	ug/kg
Bromoform	ND	5.9	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	5.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
Toluene	**2.1 J**	**5.9**	**ug/kg**
Chlorobenzene	ND	5.9	ug/kg
Ethylbenzene	ND	5.9	ug/kg
Styrene	ND	5.9	ug/kg
Xylenes (total)	ND	5.9	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(64 - 135)
Toluene-d8	103	(77 - 124)
4-Bromofluorobenzene	82	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8670

GC/MS Volatiles

Lot-Sample #...: H8F250218-009 **Work Order #...:** CJCFP202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8700

GC/MS Volatiles

Lot-Sample #...: H8F250218-011 **Work Order #...:** CJCFR202 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**2.6 J,B**	**6.0**	**ug/kg**
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Toluene	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Styrene	ND	6.0	ug/kg
Xylenes (total)	ND	6.0	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(64 - 135)
Toluene-d8	99	(77 - 124)
4-Bromofluorobenzene	82	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8700

GC/MS Volatiles

Lot-Sample #...: H8F250218-011 **Work Order #...:** CJCFR202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8820

GC/MS Volatiles

Lot-Sample #...: H8F250218-014 **Work Order #...:** CJCFW202 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	**2.4 J,B**	**5.6**	**ug/kg**
Acetone	ND	22	ug/kg
Carbon disulfide	ND	5.6	ug/kg
1,1-Dichloroethene	ND	5.6	ug/kg
1,1-Dichloroethane	ND	5.6	ug/kg
1,2-Dichloroethene (total)	ND	5.6	ug/kg
Chloroform	ND	5.6	ug/kg
1,2-Dichloroethane	ND	5.6	ug/kg
2-Butanone	ND	22	ug/kg
1,1,1-Trichloroethane	ND	5.6	ug/kg
Carbon tetrachloride	ND	5.6	ug/kg
Bromodichloromethane	ND	5.6	ug/kg
1,2-Dichloropropane	ND	5.6	ug/kg
cis-1,3-Dichloropropene	ND	5.6	ug/kg
Trichloroethene	ND	5.6	ug/kg
Dibromochloromethane	ND	5.6	ug/kg
1,1,2-Trichloroethane	ND	5.6	ug/kg
Benzene	ND	5.6	ug/kg
trans-1,3-Dichloropropene	ND	5.6	ug/kg
Bromoform	ND	5.6	ug/kg
4-Methyl-2-pentanone	ND	22	ug/kg
2-Hexanone	ND	22	ug/kg
Tetrachloroethene	ND	5.6	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg
Toluene	ND	5.6	ug/kg
Chlorobenzene	ND	5.6	ug/kg
Ethylbenzene	ND	5.6	ug/kg
Styrene	ND	5.6	ug/kg
Xylenes (total)	ND	5.6	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 135)
Toluene-d8	94	(77 - 124)
4-Bromofluorobenzene	80	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8820

GC/MS Volatiles

Lot-Sample #...: H8F250218-014 **Work Order #...:** CJCFW202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8870

GC/MS Volatiles

Lot-Sample #...: H8F250218-018 **Work Order #...:** CJCG3202 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	**2.4 J,B**	**5.7**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.7	ug/kg
1,1-Dichloroethene	ND	5.7	ug/kg
1,1-Dichloroethane	ND	5.7	ug/kg
1,2-Dichloroethene (total)	ND	5.7	ug/kg
Chloroform	ND	5.7	ug/kg
1,2-Dichloroethane	ND	5.7	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.7	ug/kg
Carbon tetrachloride	ND	5.7	ug/kg
Bromodichloromethane	ND	5.7	ug/kg
1,2-Dichloropropane	ND	5.7	ug/kg
cis-1,3-Dichloropropene	ND	5.7	ug/kg
Trichloroethene	ND	5.7	ug/kg
Dibromochloromethane	ND	5.7	ug/kg
1,1,2-Trichloroethane	ND	5.7	ug/kg
Benzene	ND	5.7	ug/kg
trans-1,3-Dichloropropene	ND	5.7	ug/kg
Bromoform	ND	5.7	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
Toluene	**1.5 J**	**5.7**	**ug/kg**
Chlorobenzene	ND	5.7	ug/kg
Ethylbenzene	ND	5.7	ug/kg
Styrene	ND	5.7	ug/kg
Xylenes (total)	ND	5.7	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 135)
Toluene-d8	104	(77 - 124)
4-Bromofluorobenzene	86	(70 - 147)

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8870

GC/MS Volatiles

Lot-Sample #...: H8F250218-018 **Work Order #...:** CJCG3202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8F250218 **Work Order #...:** CJG1A101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G010000-130

Prep Date.....: 07/01/98
Analysis Date..: 07/01/98 **Prep Batch #...:** 8182130
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	**1.6 J**	**5.0**	**ug/kg**	**SW846 8260A**
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(64 - 135)
Toluene-d8	91	(70 - 130)
4-Bromofluorobenzene	94	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8F250218 **Work Order #...:** CJG1A101 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: PB035 **Work Order #...:** CJCFE103-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F250218-001 CJCFE104-MSD
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**58.9**	**61.0**	**ug/kg**	**104**		**SW846 8260A**
	ND	**58.9**	**52.9**	**ug/kg**	**90**	**14**	**SW846 8260A**
Trichloroethene	**ND**	**58.9**	**58.0**	**ug/kg**	**99**		**SW846 8260A**
	ND	**58.9**	**58.2**	**ug/kg**	**99**	**0.24**	**SW846 8260A**
Benzene	**ND**	**58.9**	**60.8**	**ug/kg**	**103**		**SW846 8260A**
	ND	**58.9**	**60.0**	**ug/kg**	**102**	**1.3**	**SW846 8260A**
Toluene	**ND**	**58.9**	**67.5**	**ug/kg**	**113**		**SW846 8260A**
	ND	**58.9**	**63.2**	**ug/kg**	**105**	**6.7**	**SW846 8260A**
Chlorobenzene	**ND**	**58.9**	**63.1**	**ug/kg**	**107**		**SW846 8260A**
	ND	**58.9**	**57.8**	**ug/kg**	**98**	**8.8**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(64 - 135)
	102	(64 - 135)
Toluene-d8	106	(70 - 130)
	107	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H8F250218 **Work Order #...:** CJCFE103-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F250218-001 CJCFE104-MSD
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**104**	**(64 - 146)**			**SW846 8260A**
	90	**(64 - 146)**	**14**	**(0-30)**	**SW846 8260A**
Trichloroethene	**99**	**(41 - 151)**			**SW846 8260A**
	99	**(41 - 151)**	**0.24**	**(0-30)**	**SW846 8260A**
Benzene	**103**	**(70 - 130)**			**SW846 8260A**
	102	**(70 - 130)**	**1.3**	**(0-30)**	**SW846 8260A**
Toluene	**113**	**(69 - 132)**			**SW846 8260A**
	105	**(69 - 132)**	**6.7**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**107**	**(67 - 130)**			**SW846 8260A**
	98	**(67 - 130)**	**8.8**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(64 - 135)
	102	(64 - 135)
Toluene-d8	106	(70 - 130)
	107	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: PB035 **Work Order #...:** CJG1A102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G010000-130
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**48.3**	**ug/kg**	**97**	**SW846 8260A**
Benzene	**50.0**	**52.4**	**ug/kg**	**105**	**SW846 8260A**
Trichloroethene	**50.0**	**52.6**	**ug/kg**	**105**	**SW846 8260A**
Toluene	**50.0**	**51.3**	**ug/kg**	**103**	**SW846 8260A**
Chlorobenzene	**50.0**	**53.8**	**ug/kg**	**108**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(64 - 135)
Toluene-d8	95	(70 - 130)
4-Bromofluorobenzene	96	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H8F250218 **Work Order #...:** CJG1A102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G010000-130
Prep Date.....: 07/01/98 **Analysis Date..:** 07/01/98
Prep Batch #...: 8182130
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**97**	**(67 - 137)**	**SW846 8260A**
Benzene	**105**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**105**	**(68 - 130)**	**SW846 8260A**
Toluene	**103**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**108**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(64 - 135)
Toluene-d8	95	(70 - 130)
4-Bromofluorobenzene	96	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8F250218 **Work Order #...:** CJH5E101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G020000-140

Prep Date.....: 07/02/98
Analysis Date..: 07/02/98 **Prep Batch #...:** 8183140
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	**1.7 J**	**5.0**	**ug/kg**	**SW846 8260A**
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(64 - 135)
Toluene-d8	97	(70 - 130)
4-Bromofluorobenzene	77	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8F250218 **Work Order #...:** CJH5E101 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: PB035 **Work Order #...:** CJH5E102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G020000-140
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**53.9**	**ug/kg**	**108**	**SW846 8260A**
Benzene	**50.0**	**52.6**	**ug/kg**	**105**	**SW846 8260A**
Trichloroethene	**50.0**	**60.0**	**ug/kg**	**120**	**SW846 8260A**
Toluene	**50.0**	**52.1**	**ug/kg**	**104**	**SW846 8260A**
Chlorobenzene	**50.0**	**55.0**	**ug/kg**	**110**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(64 - 135)
Toluene-d8	100	(70 - 130)
4-Bromofluorobenzene	77	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H8F250218 **Work Order #...:** CJH5E102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G020000-140
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**108**	**(67 - 137)**	**SW846 8260A**
Benzene	**105**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**120**	**(68 - 130)**	**SW846 8260A**
Toluene	**104**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**110**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(64 - 135)
Toluene-d8	100	(70 - 130)
4-Bromofluorobenzene	77	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8180

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-001 **Work Order #...:** CJCFE105 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	390	ug/kg
bis(2-Chloroethyl) ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	390	ug/kg
4-Methylphenol	ND	390	ug/kg
N-Nitrosodi-n-propylamine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichlorobenzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	390	ug/kg
2,4,5-Trichlorophenol	ND	390	ug/kg
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	390	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8180

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-001 **Work Order #...:** CJCFE105 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Carbazole	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(25 - 121)
Phenol-d5	60	(24 - 113)
Nitrobenzene-d5	52	(23 - 120)
2-Fluorobiphenyl	56	(30 - 115)
2,4,6-Tribromophenol	71	(19 - 122)
Terphenyl-d14	69	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8181

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-002 **Work Order #...:** CJCFG103 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	390	ug/kg
bis(2-Chloroethyl) ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	390	ug/kg
4-Methylphenol	ND	390	ug/kg
N-Nitrosodi-n-propylamine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichlorobenzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	390	ug/kg
2,4,5-Trichlorophenol	ND	390	ug/kg
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	390	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8181

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-002 **Work Order #...:** CJCFG103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Carbazole	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	**68 J**	**390**	**ug/kg**
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(25 - 121)
Phenol-d5	75	(24 - 113)
Nitrobenzene-d5	69	(23 - 120)
2-Fluorobiphenyl	71	(30 - 115)
2,4,6-Tribromophenol	73	(19 - 122)
Terphenyl-d14	77	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8240

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-007 **Work Order #...:** CJCFM103 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	420	ug/kg
bis(2-Chloroethyl) ether	ND	420	ug/kg
2-Chlorophenol	ND	420	ug/kg
1,3-Dichlorobenzene	ND	420	ug/kg
1,4-Dichlorobenzene	ND	420	ug/kg
1,2-Dichlorobenzene	ND	420	ug/kg
2-Methylphenol	ND	420	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	420	ug/kg
4-Methylphenol	ND	420	ug/kg
N-Nitrosodi-n-propylamine	ND	420	ug/kg
Hexachloroethane	ND	420	ug/kg
Nitrobenzene	ND	420	ug/kg
Isophorone	ND	420	ug/kg
2-Nitrophenol	ND	420	ug/kg
2,4-Dimethylphenol	ND	420	ug/kg
bis(2-Chloroethoxy) methane	ND	420	ug/kg
2,4-Dichlorophenol	ND	420	ug/kg
1,2,4-Trichlorobenzene	ND	420	ug/kg
Naphthalene	ND	420	ug/kg
4-Chloroaniline	ND	420	ug/kg
Hexachlorobutadiene	ND	420	ug/kg
4-Chloro-3-methylphenol	ND	420	ug/kg
2-Methylnaphthalene	ND	420	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	420	ug/kg
2,4,5-Trichlorophenol	ND	420	ug/kg
2-Chloronaphthalene	ND	420	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	420	ug/kg
Acenaphthylene	ND	420	ug/kg
2,6-Dinitrotoluene	ND	420	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	420	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	420	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8240

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-007 **Work Order #...:** CJCFM103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	420	ug/kg
Diethyl phthalate	ND	420	ug/kg
4-Chlorophenyl phenyl ether	ND	420	ug/kg
Fluorene	ND	420	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	420	ug/kg
4-Bromophenyl phenyl ether	ND	420	ug/kg
Hexachlorobenzene	ND	420	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	420	ug/kg
Anthracene	ND	420	ug/kg
Carbazole	ND	420	ug/kg
Di-n-butyl phthalate	ND	420	ug/kg
Fluoranthene	ND	420	ug/kg
Pyrene	ND	420	ug/kg
Butyl benzyl phthalate	ND	420	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	420	ug/kg
Chrysene	ND	420	ug/kg
bis(2-Ethylhexyl) phthalate	ND	420	ug/kg
Di-n-octyl phthalate	ND	420	ug/kg
Benzo(b)fluoranthene	ND	420	ug/kg
Benzo(k)fluoranthene	ND	420	ug/kg
Benzo(a)pyrene	ND	420	ug/kg
Indeno(1,2,3-cd)pyrene	ND	420	ug/kg
Dibenz(a,h)anthracene	ND	420	ug/kg
Benzo(ghi)perylene	ND	420	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(25 - 121)
Phenol-d5	78	(24 - 113)
Nitrobenzene-d5	70	(23 - 120)
2-Fluorobiphenyl	74	(30 - 115)
2,4,6-Tribromophenol	72	(19 - 122)
Terphenyl-d14	80	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8670

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-009 **Work Order #...:** CJCFP103 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	390	ug/kg
bis(2-Chloroethyl) ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	390	ug/kg
4-Methylphenol	ND	390	ug/kg
N-Nitrosodi-n-propylamine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichlorobenzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	390	ug/kg
2,4,5-Trichlorophenol	ND	390	ug/kg
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	390	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8670

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-009 **Work Order #...:** CJCFP103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Carbazole	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(25 - 121)
Phenol-d5	74	(24 - 113)
Nitrobenzene-d5	66	(23 - 120)
2-Fluorobiphenyl	70	(30 - 115)
2,4,6-Tribromophenol	70	(19 - 122)
Terphenyl-d14	75	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8700

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-011 **Work Order #...:** CJCFR103 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	400	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8700

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-011 **Work Order #...:** CJCFR103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Benzo(a)anthracene	ND	400	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	ND	400	ug/kg
Benzo(k)fluoranthene	ND	400	ug/kg
Benzo(a)pyrene	ND	400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	ND	400	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(25 - 121)
Phenol-d5	75	(24 - 113)
Nitrobenzene-d5	74	(23 - 120)
2-Fluorobiphenyl	77	(30 - 115)
2,4,6-Tribromophenol	56	(19 - 122)
Terphenyl-d14	84	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8820

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-014 **Work Order #...:** CJCFW103 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	370	ug/kg
bis(2-Chloroethyl) ether	ND	370	ug/kg
2-Chlorophenol	ND	370	ug/kg
1,3-Dichlorobenzene	ND	370	ug/kg
1,4-Dichlorobenzene	ND	370	ug/kg
1,2-Dichlorobenzene	ND	370	ug/kg
2-Methylphenol	ND	370	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	370	ug/kg
4-Methylphenol	ND	370	ug/kg
N-Nitrosodi-n-propylamine	ND	370	ug/kg
Hexachloroethane	ND	370	ug/kg
Nitrobenzene	ND	370	ug/kg
Isophorone	ND	370	ug/kg
2-Nitrophenol	ND	370	ug/kg
2,4-Dimethylphenol	ND	370	ug/kg
bis(2-Chloroethoxy) methane	ND	370	ug/kg
2,4-Dichlorophenol	ND	370	ug/kg
1,2,4-Trichlorobenzene	ND	370	ug/kg
Naphthalene	ND	370	ug/kg
4-Chloroaniline	ND	370	ug/kg
Hexachlorobutadiene	ND	370	ug/kg
4-Chloro-3-methylphenol	ND	370	ug/kg
2-Methylnaphthalene	ND	370	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	370	ug/kg
2,4,5-Trichlorophenol	ND	370	ug/kg
2-Chloronaphthalene	ND	370	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	370	ug/kg
Acenaphthylene	ND	370	ug/kg
2,6-Dinitrotoluene	ND	370	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	370	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	370	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8820

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-014 **Work Order #...:** CJCFW103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	370	ug/kg
Diethyl phthalate	ND	370	ug/kg
4-Chlorophenyl phenyl ether	ND	370	ug/kg
Fluorene	ND	370	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	370	ug/kg
4-Bromophenyl phenyl ether	ND	370	ug/kg
Hexachlorobenzene	ND	370	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	370	ug/kg
Anthracene	ND	370	ug/kg
Carbazole	ND	370	ug/kg
Di-n-butyl phthalate	ND	370	ug/kg
Fluoranthene	ND	370	ug/kg
Pyrene	ND	370	ug/kg
Butyl benzyl phthalate	ND	370	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	370	ug/kg
Chrysene	ND	370	ug/kg
bis(2-Ethylhexyl) phthalate	ND	370	ug/kg
Di-n-octyl phthalate	ND	370	ug/kg
Benzo(b)fluoranthene	ND	370	ug/kg
Benzo(k)fluoranthene	ND	370	ug/kg
Benzo(a)pyrene	ND	370	ug/kg
Indeno(1,2,3-cd)pyrene	ND	370	ug/kg
Dibenz(a,h)anthracene	ND	370	ug/kg
Benzo(ghi)perylene	ND	370	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(25 - 121)
Phenol-d5	76	(24 - 113)
Nitrobenzene-d5	70	(23 - 120)
2-Fluorobiphenyl	74	(30 - 115)
2,4,6-Tribromophenol	74	(19 - 122)
Terphenyl-d14	77	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8870

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-018 **Work Order #...:** CJCG3103 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8177113
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	380	ug/kg
bis(2-Chloroethyl) ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichlorobenzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg
2,4,5-Trichlorophenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	**40 J**	**380**	**ug/kg**
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	380	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8870

GC/MS Semivolatiles

Lot-Sample #...: H8F250218-018 **Work Order #...:** CJCG3103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	**250 J**	**380**	**ug/kg**
Anthracene	**120 J**	**380**	**ug/kg**
Carbazole	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	**380**	**380**	**ug/kg**
Pyrene	**280 J**	**380**	**ug/kg**
Butyl benzyl phthalate	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	**170 J**	**380**	**ug/kg**
Chrysene	**170 J**	**380**	**ug/kg**
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	**140 J**	**380**	**ug/kg**
Benzo(k)fluoranthene	**110 J**	**380**	**ug/kg**
Benzo(a)pyrene	**140 J**	**380**	**ug/kg**
Indeno(1,2,3-cd)pyrene	**76 J**	**380**	**ug/kg**
Dibenz(a,h)anthracene	ND	380	ug/kg
Benzo(ghi)perylene	**76 J**	**380**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(25 - 121)
Phenol-d5	70	(24 - 113)
Nitrobenzene-d5	68	(23 - 120)
2-Fluorobiphenyl	72	(30 - 115)
2,4,6-Tribromophenol	74	(19 - 122)
Terphenyl-d14	77	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCJM101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F260000-113

Prep Date.....: 06/26/98
Analysis Date..: 07/08/98 **Prep Batch #...:** 8177113
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCJM101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
Phenol-d5	70	(24 - 113)
Nitrobenzene-d5	64	(23 - 120)
2-Fluorobiphenyl	69	(30 - 115)
2,4,6-Tribromophenol	62	(19 - 122)
Terphenyl-d14	74	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCFE106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F250218-001 CJCFE107-MSD
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8177113
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Phenol	ND	2940	1830	ug/kg	62		SW846 8270B
	ND	2940	2100	ug/kg	71	14	SW846 8270B
2-Chlorophenol	ND	2940	1910	ug/kg	65		SW846 8270B
	ND	2940	2130	ug/kg	72	11	SW846 8270B
1,4-Dichlorobenzene	ND	1970	1160	ug/kg	59		SW846 8270B
	ND	1970	1260	ug/kg	64	8.4	SW846 8270B
N-Nitrosodi-n-propylamine	ND	1970	1040	ug/kg	53		SW846 8270B
	ND	1970	1170	ug/kg	60	12	SW846 8270B
1,2,4-Trichlorobenzene	ND	1970	1340	ug/kg	68		SW846 8270B
	ND	1970	1440	ug/kg	73	6.8	SW846 8270B
4-Chloro-3-methylphenol	ND	2940	1930	ug/kg	66		SW846 8270B
	ND	2940	2160	ug/kg	73	11	SW846 8270B
Acenaphthene	ND	1970	1200	ug/kg	61		SW846 8270B
	ND	1970	1330	ug/kg	68	10	SW846 8270B
4-Nitrophenol	ND	2940	1590	ug/kg	54		SW846 8270B
	ND	2940	1830	ug/kg	62	14	SW846 8270B
2,4-Dinitrotoluene	ND	1970	1320	ug/kg	67		SW846 8270B
	ND	1970	1470	ug/kg	75	11	SW846 8270B
Pentachlorophenol	ND	2940	2170	ug/kg	74		SW846 8270B
	ND	2940	2360	ug/kg	80	8.3	SW846 8270B
Pyrene	ND	1970	1270	ug/kg	65		SW846 8270B
	ND	1970	1370	ug/kg	69	7.1	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
	66	(25 - 121)
Phenol-d5	68	(24 - 113)
	76	(24 - 113)
Nitrobenzene-d5	60	(23 - 120)
	64	(23 - 120)
2-Fluorobiphenyl	64	(30 - 115)
	68	(30 - 115)
2,4,6-Tribromophenol	70	(19 - 122)
	68	(19 - 122)
Terphenyl-d14	68	(20 - 138)
	72	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCFE106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F250218-001 CJCFE107-MSD
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8177113
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**62**	**(23 - 115)**			**SW846 8270B**
	71	**(23 - 115)**	**14**	**(0-41)**	**SW846 8270B**
2-Chlorophenol	**65**	**(20 - 118)**			**SW846 8270B**
	72	**(20 - 118)**	**11**	**(0-42)**	**SW846 8270B**
1,4-Dichlorobenzene	**59**	**(16 - 116)**			**SW846 8270B**
	64	**(16 - 116)**	**8.4**	**(0-43)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**53**	**(12 - 126)**			**SW846 8270B**
	60	**(12 - 126)**	**12**	**(0-42)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**68**	**(19 - 124)**			**SW846 8270B**
	73	**(19 - 124)**	**6.8**	**(0-46)**	**SW846 8270B**
4-Chloro-3-methylphenol	**66**	**(28 - 119)**			**SW846 8270B**
	73	**(28 - 119)**	**11**	**(0-35)**	**SW846 8270B**
Acenaphthene	**61**	**(23 - 125)**			**SW846 8270B**
	68	**(23 - 125)**	**10**	**(0-40)**	**SW846 8270B**
4-Nitrophenol	**54**	**(15 - 130)**			**SW846 8270B**
	62	**(15 - 130)**	**14**	**(0-54)**	**SW846 8270B**
2,4-Dinitrotoluene	**67**	**(26 - 122)**			**SW846 8270B**
	75	**(26 - 122)**	**11**	**(0-32)**	**SW846 8270B**
Pentachlorophenol	**74**	**(10 - 134)**			**SW846 8270B**
	80	**(10 - 134)**	**8.3**	**(0-53)**	**SW846 8270B**
Pyrene	**65**	**(28 - 128)**			**SW846 8270B**
	69	**(28 - 128)**	**7.1**	**(0-42)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
	66	(25 - 121)
Phenol-d5	68	(24 - 113)
	76	(24 - 113)
Nitrobenzene-d5	60	(23 - 120)
	64	(23 - 120)
2-Fluorobiphenyl	64	(30 - 115)
	68	(30 - 115)
2,4,6-Tribromophenol	70	(19 - 122)
	68	(19 - 122)
Terphenyl-d14	68	(20 - 138)
	72	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCJM102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F260000-113
Prep Date.....: 06/26/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8177113
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**2500**	**1640**	**ug/kg**	**66**	**SW846 8270B**
2-Chlorophenol	**2500**	**1670**	**ug/kg**	**67**	**SW846 8270B**
1,4-Dichlorobenzene	**1670**	**1110**	**ug/kg**	**66**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**1670**	**1010**	**ug/kg**	**60**	**SW846 8270B**
1,2,4-Trichlorobenzene	**1670**	**1250**	**ug/kg**	**75**	**SW846 8270B**
4-Chloro-3-methylphenol	**2500**	**1610**	**ug/kg**	**64**	**SW846 8270B**
Acenaphthene	**1670**	**1130**	**ug/kg**	**68**	**SW846 8270B**
4-Nitrophenol	**2500**	**1420**	**ug/kg**	**57**	**SW846 8270B**
2,4-Dinitrotoluene	**1670**	**1260**	**ug/kg**	**75**	**SW846 8270B**
Pentachlorophenol	**2500**	**1930**	**ug/kg**	**77**	**SW846 8270B**
Pyrene	**1670**	**1170**	**ug/kg**	**70**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(25 - 121)
Phenol-d5	75	(24 - 113)
Nitrobenzene-d5	67	(23 - 120)
2-Fluorobiphenyl	72	(30 - 115)
2,4,6-Tribromophenol	61	(19 - 122)
Terphenyl-d14	76	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCJM102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F260000-113
Prep Date.....: 06/26/98 **Analysis Date..:** 07/08/98
Prep Batch #...: 8177113
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**66**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**67**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**66**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**60**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**75**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**64**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**68**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**57**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**75**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**77**	**(17 - 117)**	**SW846 8270B**
Pyrene	**70**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(25 - 121)
Phenol-d5	75	(24 - 113)
Nitrobenzene-d5	67	(23 - 120)
2-Fluorobiphenyl	72	(30 - 115)
2,4,6-Tribromophenol	61	(19 - 122)
Terphenyl-d14	76	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8180

GC Semivolatiles

Lot-Sample #...: H8F250218-001 Work Order #...: CJCFE108 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/25/98
Prep Date.....: 06/26/98 Analysis Date..: 07/13/98
Prep Batch #...: 8177116
Dilution Factor: 1
% Moisture.....: 15 Method.....: SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	110	(40 - 134)
Decachlorobiphenyl	103	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8181

GC Semivolatiles

Lot-Sample #...:	H8F250218-002	**Work Order #...:**	CJCFG104	**Matrix.....:**	SOLID
Date Sampled...:	06/23/98	**Date Received..:**	06/25/98		
Prep Date.....:	06/26/98	**Analysis Date..:**	07/13/98		
Prep Batch #...:	8177116				
Dilution Factor:	1				
% Moisture.....:	16	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	119	(40 - 134)
Decachlorobiphenyl	107	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8240

GC Semivolatiles

Lot-Sample #...: H8F250218-007 **Work Order #...:** CJCFM104 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8177116
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	42	ug/kg
Aroclor 1221	ND	42	ug/kg
Aroclor 1232	ND	42	ug/kg
Aroclor 1242	ND	42	ug/kg
Aroclor 1248	ND	42	ug/kg
Aroclor 1254	ND	42	ug/kg
Aroclor 1260	ND	42	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	109	(40 - 134)
Decachlorobiphenyl	109	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8670

GC Semivolatiles

Lot-Sample #...:	H8F250218-009	**Work Order #...:**	CJCFP104	**Matrix.....:**	SOLID
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	06/26/98	**Analysis Date..:**	07/14/98		
Prep Batch #...:	8177116				
Dilution Factor:	1				
% Moisture.....:	15	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	103	(40 - 134)
Decachlorobiphenyl	98	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8700

GC Semivolatiles

Lot-Sample #...: H8F250218-011 Work Order #...: CJCFR104 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
Prep Date.....: 06/26/98 Analysis Date..: 07/14/98
Prep Batch #...: 8177116
Dilution Factor: 1
% Moisture.....: 17 Method.....: SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(40 - 134)
Decachlorobiphenyl	98	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8820

GC Semivolatiles

Lot-Sample #...:	H8F250218-014	**Work Order #...:**	CJCFW104	**Matrix.....:**	SOLID
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	06/26/98	**Analysis Date..:**	07/14/98		
Prep Batch #...:	8177116				
Dilution Factor:	1				
% Moisture.....:	11	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	37	ug/kg
Aroclor 1221	ND	37	ug/kg
Aroclor 1232	ND	37	ug/kg
Aroclor 1242	ND	37	ug/kg
Aroclor 1248	ND	37	ug/kg
Aroclor 1254	ND	37	ug/kg
Aroclor 1260	ND	37	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	114	(40 - 134)
Decachlorobiphenyl	108	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8870

GC Semivolatiles

Lot-Sample #...:	H8F250218-018	**Work Order #...:**	CJCG3104	**Matrix.....:**	SOLID
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	06/26/98	**Analysis Date..:**	07/14/98		
Prep Batch #...:	8177116				
Dilution Factor:	1				
% Moisture.....:	13	**Method.....:**	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	ND	38	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	108	(40 - 134)
Decachlorobiphenyl	98	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCJT101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F260000-116

Prep Date.....: 06/26/98
Analysis Date..: 07/13/98 **Prep Batch #...:** 8177116
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	104	(40 - 134)
Decachlorobiphenyl	93	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCFE109-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F250218-001 CJCFE10A-MSD
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8177116
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**ND**	**392**	**468**	**ug/kg**	**119**		**SW846 8081**
	ND	**392**	**458**	**ug/kg**	**117**	**2.0**	**SW846 8081**
Aroclor 1260	**ND**	**392**	**436**	**ug/kg**	**111**		**SW846 8081**
	ND	**392**	**418**	**ug/kg**	**107**	**4.2**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	113	(40 - 134)
	106	(40 - 134)
Decachlorobiphenyl	111	(38 - 174)
	102	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCFE109-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F250218-001 CJCFE10A-MSD
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 06/26/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8177116
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	119	(52 - 144)			SW846 8081
	117	(52 - 144)	2.0	(0-25)	SW846 8081
Aroclor 1260	111	(45 - 143)			SW846 8081
	107	(45 - 143)	4.2	(0-25)	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	113	(40 - 134)
	106	(40 - 134)
Decachlorobiphenyl	111	(38 - 174)
	102	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCJT102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F260000-116
Prep Date.....: 06/26/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8177116
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**333**	**363**	**ug/kg**	**109**	**SW846 8081**
Aroclor 1260	**333**	**328**	**ug/kg**	**98**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	108	(40 - 134)
Decachlorobiphenyl	101	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB035 **Work Order #...:** CJCJT102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F260000-116
Prep Date.....: 06/26/98 **Analysis Date..:** 07/13/98
Prep Batch #...: 8177116
Dilution Factor: 1

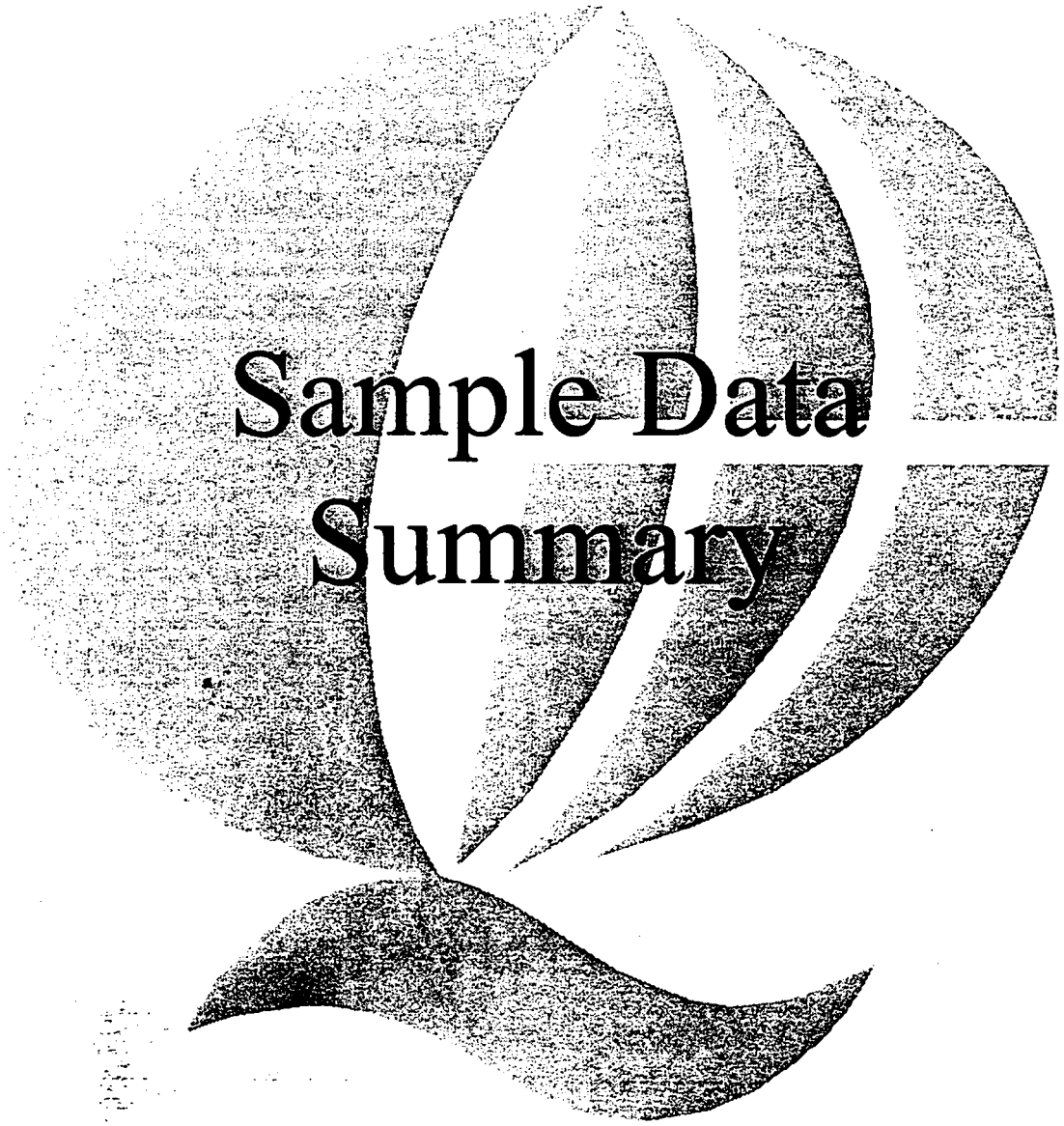
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**109**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**98**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	108	(40 - 134)
Decachlorobiphenyl	101	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8180

HPLC

Lot-Sample #...: H8F250218-001 Work Order #...: CJCFE10C Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/25/98
Prep Date.....: 07/01/98 Analysis Date..: 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 15 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8181

HPLC

Lot-Sample #...: H8F250218-002 Work Order #...: CJCFG105 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/25/98
Prep Date.....: 07/01/98 Analysis Date..: 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 16 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8190

HPLC

Lot-Sample #...: H8F250218-003 Work Order #...: CJCFH102 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/25/98
Prep Date.....: 07/01/98 Analysis Date..: 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 15 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	112	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8200

HPLC

Lot-Sample #...:	H8F250218-004	Work Order #...:	CJCFJ102	Matrix.....:	SOLID
Date Sampled...:	06/23/98	Date Received..:	06/25/98		
Prep Date.....:	07/01/98	Analysis Date..:	07/09/98		
Prep Batch #...:	8182290				
Dilution Factor:	1				
% Moisture.....:	20	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	0.28	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	116	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8220

HPLC

Lot-Sample #...:	H8F250218-005	Work Order #...:	CJCFK102	Matrix.....:	SOLID
Date Sampled...:	06/23/98	Date Received..:	06/25/98		
Prep Date.....:	07/01/98	Analysis Date..:	07/09/98		
Prep Batch #...:	8182290				
Dilution Factor:	1				
% Moisture.....:	14	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	105	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8230

HPLC

Lot-Sample #...:	H8F250218-006	Work Order #...:	CJCFL102	Matrix.....:	SOLID
Date Sampled...:	06/23/98	Date Received..:	06/25/98		
Prep Date.....:	07/01/98	Analysis Date..:	07/09/98		
Prep Batch #...:	8182290				
Dilution Factor:	1				
% Moisture.....:	11	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	135 *	(72 - 129)

NOTE(S):

* Surrogate recovery is outside stated control limits.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8240

HPLC

Lot-Sample #...: H8F250218-007 Work Order #...: CJCFM105 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/25/98
Prep Date.....: 07/01/98 Analysis Date..: 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1
% Moisture.....: 21 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	104	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8660

HPLC

Lot-Sample #...: H8F250218-008 Work Order #...: CJCFN102 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
Prep Date.....: 07/07/98 Analysis Date..: 07/09/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 17 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8670

HPLC

Lot-Sample #...: H8F250218-009 Work Order #...: CJCFP105 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
Prep Date.....: 07/07/98 Analysis Date..: 07/09/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 15 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8680

HPLC

Lot-Sample #...:	H8F250218-010	Work Order #...:	CJCFQ102	Matrix.....:	SOLID
Date Sampled...:	06/24/98	Date Received..:	06/25/98		
Prep Date.....:	07/07/98	Analysis Date..:	07/09/98		
Prep Batch #...:	8187151				
Dilution Factor:	1				
% Moisture.....:	15	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	104	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8700

HPLC

Lot-Sample #...: H8F250218-011 Work Order #...: CJCFR105 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
Prep Date.....: 07/07/98 Analysis Date..: 07/09/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 17 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8710

HPLC

Lot-Sample #...:	H8F250218-012	**Work Order #...:**	CJCFT102	**Matrix.....:**	SOLID
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	07/07/98	**Analysis Date..:**	07/09/98		
Prep Batch #...:	8187151				
Dilution Factor:	1				
% Moisture.....:	18	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8720

HPLC

Lot-Sample #...: H8F250218-013 Work Order #...: CJCFV105 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
Prep Date.....: 07/07/98 Analysis Date..: 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 22 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8820

HPLC

Lot-Sample #...:	H8F250218-014	Work Order #...:	CJCFW105	Matrix.....:	SOLID
Date Sampled...:	06/24/98	Date Received..:	06/25/98		
Prep Date.....:	07/07/98	Analysis Date..:	07/10/98		
Prep Batch #...:	8187151				
Dilution Factor:	1				
% Moisture.....:	11	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8830

HPLC

Lot-Sample #...: H8F250218-015 Work Order #...: CJCFX102 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
Prep Date.....: 07/07/98 Analysis Date..: 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 18 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8840

HPLC

Lot-Sample #...:	H8F250218-016	**Work Order #...:**	CJCG1102	**Matrix.....:**	SOLID
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	07/07/98	**Analysis Date..:**	07/10/98		
Prep Batch #...:	8187151				
Dilution Factor:	1				
% Moisture.....:	22	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8860

HPLC

Lot-Sample #...:	H8F250218-017	Work Order #...:	CJCG2102	Matrix.....:	SOLID
Date Sampled...:	06/24/98	Date Received..:	06/25/98		
Prep Date.....:	07/07/98	Analysis Date..:	07/10/98		
Prep Batch #...:	8187151				
Dilution Factor:	1				
% Moisture.....:	12	Method.....:	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	99	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8870

HPLC

Lot-Sample #...:	H8F250218-018	**Work Order #...:**	CJCG3105	**Matrix.....:**	SOLID
Date Sampled...:	06/24/98	**Date Received..:**	06/25/98		
Prep Date.....:	07/07/98	**Analysis Date..:**	07/10/98		
Prep Batch #...:	8187151				
Dilution Factor:	1				
% Moisture.....:	13	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	102	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8880

HPLC

Lot-Sample #...: H8F250218-019 Work Order #...: CJCG4102 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
Prep Date.....: 07/07/98 Analysis Date..: 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1
% Moisture.....: 14 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(72 - 129)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB035 **Work Order #...:** CJGP3101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G010000-290

Prep Date.....: 07/01/98
Analysis Date..: 07/09/98 **Prep Batch #...:** 8182290
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	111	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: PB035 **Work Order #...:** CJCFE10D-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F250218-001 CJCFE10E-MSD
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2-Amino-4,6-dinitrotoluen	ND	3.00	3.37	mg/kg	112		SW846 8330
	ND	3.00	3.49	mg/kg	116	3.3	SW846 8330
4-Nitrotoluene	ND	3.00	3.37	mg/kg	112		SW846 8330
	ND	3.00	3.57	mg/kg	119	5.7	SW846 8330
HMX	ND	3.00	3.18	mg/kg	106		SW846 8330
	ND	3.00	3.16	mg/kg	105	0.50	SW846 8330
RDX	ND	3.00	3.20	mg/kg	107		SW846 8330
	ND	3.00	3.38	mg/kg	113	5.3	SW846 8330
1,3,5-Trinitrobenzene	ND	3.00	3.59	mg/kg	120		SW846 8330
	ND	3.00	3.68	mg/kg	123	2.5	SW846 8330
1,3-Dinitrobenzene	ND	3.00	3.40	mg/kg	113		SW846 8330
	ND	3.00	3.48	mg/kg	116	2.5	SW846 8330
Tetryl	ND	3.00	2.84	mg/kg	94		SW846 8330
	ND	3.00	3.05	mg/kg	102	7.4	SW846 8330
Nitrobenzene	ND	3.00	3.35	mg/kg	112		SW846 8330
	ND	3.00	3.40	mg/kg	113	1.4	SW846 8330
2,4,6-Trinitrotoluene	ND	3.00	3.24	mg/kg	108		SW846 8330
	ND	3.00	3.27	mg/kg	109	0.82	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	3.00	3.31	mg/kg	110		SW846 8330
	ND	3.00	3.40	mg/kg	113	2.6	SW846 8330
2,6-Dinitrotoluene	ND	3.00	3.22	mg/kg	107		SW846 8330
	ND	3.00	3.33	mg/kg	111	3.3	SW846 8330
2,4-Dinitrotoluene	ND	3.00	3.38	mg/kg	113		SW846 8330
	ND	3.00	3.45	mg/kg	115	2.0	SW846 8330
2-Nitrotoluene	ND	3.00	3.38	mg/kg	113		SW846 8330
	ND	3.00	3.47	mg/kg	116	2.4	SW846 8330
3-Nitrotoluene	ND	3.00	3.46	mg/kg	115		SW846 8330
	ND	3.00	3.52	mg/kg	117	1.7	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	114	(72 - 129)
	118	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB035
MS Lot-Sample #: H8F250218-001
Date Sampled...: 06/23/98
Prep Date.....: 07/01/98
Prep Batch #...: 8182290
Dilution Factor: 1

Work Order #...: CJCFE10D-MS
CJCFE10E-MSD
Date Received..: 06/25/98
Analysis Date..: 07/09/98
% Moisture.....: 15

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	112	(76 - 120)			SW846 8330
	116	(76 - 120)	3.3	(0-15)	SW846 8330
4-Nitrotoluene	112	(76 - 122)			SW846 8330
	119	(76 - 122)	5.7	(0-25)	SW846 8330
HMX	106	(48 - 125)			SW846 8330
	105	(48 - 125)	0.50	(0-15)	SW846 8330
RDX	107	(61 - 127)			SW846 8330
	113	(61 - 127)	5.3	(0-15)	SW846 8330
1,3,5-Trinitrobenzene	120	(74 - 126)			SW846 8330
	123	(74 - 126)	2.5	(0-15)	SW846 8330
1,3-Dinitrobenzene	113	(71 - 126)			SW846 8330
	116	(71 - 126)	2.5	(0-15)	SW846 8330
Tetryl	94	(32 - 143)			SW846 8330
	102	(32 - 143)	7.4	(0-26)	SW846 8330
Nitrobenzene	112	(76 - 122)			SW846 8330
	113	(76 - 122)	1.4	(0-15)	SW846 8330
2,4,6-Trinitrotoluene	108	(69 - 132)			SW846 8330
	109	(69 - 132)	0.82	(0-15)	SW846 8330
4-Amino-2,6-dinitrotoluen	110	(67 - 127)			SW846 8330
	113	(67 - 127)	2.6	(0-15)	SW846 8330
2,6-Dinitrotoluene	107	(75 - 122)			SW846 8330
	111	(75 - 122)	3.3	(0-15)	SW846 8330
2,4-Dinitrotoluene	113	(75 - 124)			SW846 8330
	115	(75 - 124)	2.0	(0-15)	SW846 8330
2-Nitrotoluene	113	(77 - 125)			SW846 8330
	116	(77 - 125)	2.4	(0-15)	SW846 8330
3-Nitrotoluene	115	(76 - 121)			SW846 8330
	117	(76 - 121)	1.7	(0-15)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	114	(72 - 129)
	118	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: PB035 **Work Order #...:** CJGP3102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G010000-290
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
HMX	3.00	2.95	mg/kg	98	SW846 8330
RDX	3.00	3.23	mg/kg	108	SW846 8330
1,3,5-Trinitrobenzene	3.00	3.34	mg/kg	111	SW846 8330
1,3-Dinitrobenzene	3.00	3.15	mg/kg	105	SW846 8330
Tetryl	3.00	2.72	mg/kg	91	SW846 8330
Nitrobenzene	3.00	3.15	mg/kg	105	SW846 8330
2,4,6-Trinitrotoluene	3.00	2.87	mg/kg	96	SW846 8330
4-Amino-2,6-dinitrotoluen	3.00	3.19	mg/kg	106	SW846 8330
2,6-Dinitrotoluene	3.00	2.93	mg/kg	98	SW846 8330
2,4-Dinitrotoluene	3.00	3.09	mg/kg	103	SW846 8330
2-Nitrotoluene	3.00	3.13	mg/kg	104	SW846 8330
3-Nitrotoluene	3.00	3.27	mg/kg	109	SW846 8330
2-Amino-4,6-dinitrotoluen	3.00	3.18	mg/kg	106	SW846 8330
4-Nitrotoluene	3.00	3.27	mg/kg	109	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene[1]	108	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB035 **Work Order #...:** CJGP3102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G010000-290
Prep Date.....: 07/01/98 **Analysis Date..:** 07/09/98
Prep Batch #...: 8182290
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**98**	**(65 - 117)**	**SW846 8330**
RDX	**108**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**111**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**105**	**(75 - 123)**	**SW846 8330**
Tetryl	**91**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**105**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**96**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**106**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**98**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**103**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**104**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**109**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**106**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**109**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: PB035 **Work Order #...:** CJJPH101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G060000-151

Prep Date.....: 07/07/98
Analysis Date..: 07/09/98 **Prep Batch #...:** 8187151
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: PB035 **Work Order #...:** CJJPH102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G060000-151
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
HMX	3.00	2.82	mg/kg	94	SW846 8330
RDX	3.00	3.18	mg/kg	106	SW846 8330
1,3,5-Trinitrobenzene	3.00	3.37	mg/kg	112	SW846 8330
1,3-Dinitrobenzene	3.00	3.17	mg/kg	106	SW846 8330
Tetryl	3.00	2.06	mg/kg	69	SW846 8330
Nitrobenzene	3.00	3.11	mg/kg	104	SW846 8330
2,4,6-Trinitrotoluene	3.00	1.86 a	mg/kg	62	SW846 8330
4-Amino-2,6-dinitrotoluen	3.00	3.45	mg/kg	115	SW846 8330
2,6-Dinitrotoluene	3.00	3.00	mg/kg	100	SW846 8330
2,4-Dinitrotoluene	3.00	3.12	mg/kg	104	SW846 8330
2-Nitrotoluene	3.00	3.17	mg/kg	106	SW846 8330
3-Nitrotoluene	3.00	3.26	mg/kg	109	SW846 8330
2-Amino-4,6-dinitrotoluen	3.00	3.22	mg/kg	107	SW846 8330
4-Nitrotoluene	3.00	3.25	mg/kg	108	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene'	112	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB035 **Work Order #...:** CJJPH102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G060000-151
Prep Date.....: 07/07/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187151
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**94**	**(65 - 117)**	**SW846 8330**
RDX	**106**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**112**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**106**	**(75 - 123)**	**SW846 8330**
Tetryl	**69**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**104**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**62 a**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**115**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**100**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**104**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**106**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**109**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**107**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**108**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	112	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8180

TOTAL Metals

Lot-Sample #...: H8F250218-001 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/25/98
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	16500	23.6	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE10F
		Dilution Factor: 1				
Arsenic	8.1	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFE128
		Dilution Factor: 1				
Lead	11.7	0.35	mg/kg	SW846 6010A	07/08-07/13/98	CJCFE12C
		Dilution Factor: 1				
Antimony	ND	7.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE10J
		Dilution Factor: 1				
Barium	112	23.6	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE10M
		Dilution Factor: 1				
Selenium	ND	0.59	mg/kg	SW846 6010A	07/08-07/17/98	CJCFE12F
		Dilution Factor: 1				
Beryllium	0.76	0.59	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE10Q
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFE12J
		Dilution Factor: 1				
Cadmium	0.59	0.59	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE10U
		Dilution Factor: 1				
Calcium	2710	589	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE10X
		Dilution Factor: 1				
Chromium	19.9	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE112
		Dilution Factor: 1				
Cobalt	17.9	5.9	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE115
		Dilution Factor: 1				
Copper	21.4	2.9	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE118
		Dilution Factor: 1				
Iron	30200	11.8	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE11C
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8180

TOTAL Metals

Lot-Sample #...: H8F250218-001 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**3760**	**589**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFE11F**
		Dilution Factor: 1				
Manganese	**1340**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFE11J**
		Dilution Factor: 1				
Nickel	**44.3**	**4.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFE11M**
		Dilution Factor: 1				
Potassium	**2970**	**589**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFE11Q**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE11U
		Dilution Factor: 1				
Sodium	ND	589	mg/kg	SW846 6010A	07/08-07/10/98	CJCFE11X
		Dilution Factor: 1				
Vanadium	**32.5**	**5.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFE122**
		Dilution Factor: 1				
Zinc	**111**	**2.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFE125**
		Dilution Factor: 1				

Prep Batch #...: 8189210

Mercury	ND	0.039	mg/kg	SW846 7471A	07/08-07/09/98	CJCFE12M
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8181

TOTAL Metals

Lot-Sample #...: H8F250218-002 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**14700**	**23.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG106**
		Dilution Factor: 1				
Arsenic	**6.5**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFG10R**
		Dilution Factor: 1				
Lead	**10.3**	**0.36**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFG10T**
		Dilution Factor: 1				
Antimony	ND	7.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCFG107
		Dilution Factor: 1				
Barium	**158**	**23.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG108**
		Dilution Factor: 1				
Selenium	ND	0.59	mg/kg	SW846 6010A	07/08-07/17/98	CJCFG10U
		Dilution Factor: 1				
Beryllium	**0.81**	**0.59**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG109**
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFG10V
		Dilution Factor: 1				
Cadmium	**0.89**	**0.59**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10A**
		Dilution Factor: 1				
Calcium	**2560**	**594**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10C**
		Dilution Factor: 1				
Chromium	**17.4**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10D**
		Dilution Factor: 1				
Cobalt	**20.9**	**5.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10E**
		Dilution Factor: 1				
Copper	**22.5**	**3.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10F**
		Dilution Factor: 1				
Iron	**26300**	**11.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10G**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8181

TOTAL Metals

Lot-Sample #...: H8F250218-002 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**3630**	**594**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10H**
		Dilution Factor: 1				
Manganese	**1270**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10J**
		Dilution Factor: 1				
Nickel	**45.6**	**4.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10K**
		Dilution Factor: 1				
Potassium	**2350**	**594**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10L**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFG10M
		Dilution Factor: 1				
Sodium	ND	594	mg/kg	SW846 6010A	07/08-07/10/98	CJCFG10N
		Dilution Factor: 1				
Vanadium	**26.7**	**5.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10P**
		Dilution Factor: 1				
Zinc	**111**	**2.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFG10Q**
		Dilution Factor: 1				

Prep Batch #...: 8189210

Mercury	ND	0.039	mg/kg	SW846 7471A	07/08-07/09/98	CJCFG10W
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8190

TOTAL Metals

Lot-Sample #...: H8F250218-003 Matrix.....: SOLID
Date Sampled...: 06/23/98 Date Received..: 06/25/98
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	7040	23.6	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH103
		Dilution Factor: 1				
Arsenic	6.8	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFH10N
		Dilution Factor: 1				
Lead	9.4	0.35	mg/kg	SW846 6010A	07/08-07/13/98	CJCFH10P
		Dilution Factor: 1				
Antimony	ND	7.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH104
		Dilution Factor: 1				
Barium	87.2	23.6	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH105
		Dilution Factor: 1				
Selenium	ND	0.59	mg/kg	SW846 6010A	07/08-07/17/98	CJCFH10Q
		Dilution Factor: 1				
Beryllium	ND	0.59	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH106
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFH10R
		Dilution Factor: 1				
Cadmium	ND	0.59	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH107
		Dilution Factor: 1				
Calcium	2200	590	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH108
		Dilution Factor: 1				
Chromium	11.4	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH109
		Dilution Factor: 1				
Cobalt	21.0	5.9	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH10A
		Dilution Factor: 1				
Copper	15.1	2.9	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH10C
		Dilution Factor: 1				
Iron	19600	11.8	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH10D
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8190

TOTAL Metals

Lot-Sample #...: H8F250218-003 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**2020**	**590**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFH10E**
		Dilution Factor: 1				
Manganese	**495**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFH10F**
		Dilution Factor: 1				
Nickel	**24.0**	**4.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFH10G**
		Dilution Factor: 1				
Potassium	**941**	**590**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFH10H**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH10J
		Dilution Factor: 1				
Sodium	ND	590	mg/kg	SW846 6010A	07/08-07/10/98	CJCFH10K
		Dilution Factor: 1				
Vanadium	**19.6**	**5.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFH10L**
		Dilution Factor: 1				
Zinc	**64.1**	**2.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFH10M**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/08-07/09/98	CJCFH10T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8200

TOTAL Metals

Lot-Sample #...: H8F250218-004 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**9400**	**25.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ103**
		Dilution Factor: 1				
Arsenic	**5.8**	**1.3**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFJ10N**
		Dilution Factor: 1				
Lead	**7.6**	**0.38**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFJ10P**
		Dilution Factor: 1				
Antimony	ND	7.5	mg/kg	SW846 6010A	07/08-07/10/98	CJCFJ104
		Dilution Factor: 1				
Barium	**58.0**	**25.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ105**
		Dilution Factor: 1				
Selenium	ND	0.63	mg/kg	SW846 6010A	07/08-07/17/98	CJCFJ10Q
		Dilution Factor: 1				
Beryllium	ND	0.63	mg/kg	SW846 6010A	07/08-07/10/98	CJCFJ106
		Dilution Factor: 1				
Thallium	ND	1.3	mg/kg	SW846 6010A	07/08-07/13/98	CJCFJ10R
		Dilution Factor: 1				
Cadmium	ND	0.63	mg/kg	SW846 6010A	07/08-07/10/98	CJCFJ107
		Dilution Factor: 1				
Calcium	**40200**	**626**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ108**
		Dilution Factor: 1				
Chromium	**14.8**	**1.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ109**
		Dilution Factor: 1				
Cobalt	**8.5**	**6.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10A**
		Dilution Factor: 1				
Copper	**20.3**	**3.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10C**
		Dilution Factor: 1				
Iron	**20100**	**12.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10D**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8200

TOTAL Metals

Lot-Sample #...: H8F250218-004 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**10800**	**626**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10E**
		Dilution Factor: 1				
Manganese	**372**	**1.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10F**
		Dilution Factor: 1				
Nickel	**23.0**	**5.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10G**
		Dilution Factor: 1				
Potassium	**2460**	**626**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10H**
		Dilution Factor: 1				
Silver	ND	1.3	mg/kg	SW846 6010A	07/08-07/10/98	CJCFJ10J
		Dilution Factor: 1				
Sodium	ND	626	mg/kg	SW846 6010A	07/08-07/10/98	CJCFJ10K
		Dilution Factor: 1				
Vanadium	**23.3**	**6.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10L**
		Dilution Factor: 1				
Zinc	**54.7**	**2.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFJ10M**
		Dilution Factor: 1				

Prep Batch #...: 8189210

Mercury	ND	0.041	mg/kg	SW846 7471A	07/08-07/09/98	CJCFJ10T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8220

TOTAL Metals

Lot-Sample #...: H8F250218-005 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**17000**	**23.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK103**
		Dilution Factor: 1				
Arsenic	**6.1**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFK10N**
		Dilution Factor: 1				
Lead	**10.3**	**0.35**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFK10P**
		Dilution Factor: 1				
Antimony	ND	7.0	mg/kg	SW846 6010A	07/08-07/10/98	CJCFK104
		Dilution Factor: 1				
Barium	**85.4**	**23.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK105**
		Dilution Factor: 1				
Selenium	ND	0.58	mg/kg	SW846 6010A	07/08-07/17/98	CJCFK10Q
		Dilution Factor: 1				
Beryllium	**0.78**	**0.58**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK106**
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFK10R
		Dilution Factor: 1				
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/08-07/10/98	CJCFK107
		Dilution Factor: 1				
Calcium	**1900**	**585**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK108**
		Dilution Factor: 1				
Chromium	**19.2**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK109**
		Dilution Factor: 1				
Cobalt	**14.7**	**5.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10A**
		Dilution Factor: 1				
Copper	**21.9**	**2.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10C**
		Dilution Factor: 1				
Iron	**23900**	**11.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10D**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8220

TOTAL Metals

Lot-Sample #...: H8F250218-005 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**3220**	**585**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10E**
		Dilution Factor: 1				
Manganese	**915**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10F**
		Dilution Factor: 1				
Nickel	**29.7**	**4.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10G**
		Dilution Factor: 1				
Potassium	**2510**	**585**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10H**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFK10J
		Dilution Factor: 1				
Sodium	ND	585	mg/kg	SW846 6010A	07/08-07/10/98	CJCFK10K
		Dilution Factor: 1				
Vanadium	**32.9**	**5.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10L**
		Dilution Factor: 1				
Zinc	**88.1**	**2.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFK10M**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/08-07/09/98	CJCFK10T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8230

TOTAL Metals

Lot-Sample #...: H8F250218-006 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**8640**	**22.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL103**
		Dilution Factor: 1				
Arsenic	**4.5**	**1.1**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFL10N**
		Dilution Factor: 1				
Lead	**6.2**	**0.34**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFL10P**
		Dilution Factor: 1				
Antimony	ND	6.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCFL104
		Dilution Factor: 1				
Barium	**45.7**	**22.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL105**
		Dilution Factor: 1				
Selenium	ND	0.56	mg/kg	SW846 6010A	07/08-07/17/98	CJCFL10Q
		Dilution Factor: 1				
Beryllium	ND	0.56	mg/kg	SW846 6010A	07/08-07/10/98	CJCFL106
		Dilution Factor: 1				
Thallium	ND	1.1	mg/kg	SW846 6010A	07/08-07/13/98	CJCFL10R
		Dilution Factor: 1				
Cadmium	ND	0.56	mg/kg	SW846 6010A	07/08-07/10/98	CJCFL107
		Dilution Factor: 1				
Calcium	**1860**	**562**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL108**
		Dilution Factor: 1				
Chromium	**11.9**	**1.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL109**
		Dilution Factor: 1				
Cobalt	**9.2**	**5.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10A**
		Dilution Factor: 1				
Copper	**12.7**	**2.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10C**
		Dilution Factor: 1				
Iron	**14500**	**11.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10D**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8230

TOTAL Metals

Lot-Sample #...: H8F250218-006 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**1990**	**562**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10E**
		Dilution Factor: 1				
Manganese	**267**	**1.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10F**
		Dilution Factor: 1				
Nickel	**20.9**	**4.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10G**
		Dilution Factor: 1				
Potassium	**1370**	**562**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10H**
		Dilution Factor: 1				
Silver	ND	1.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCFL10J
		Dilution Factor: 1				
Sodium	ND	562	mg/kg	SW846 6010A	07/08-07/10/98	CJCFL10K
		Dilution Factor: 1				
Vanadium	**18.2**	**5.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10L**
		Dilution Factor: 1				
Zinc	**53.8**	**2.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFL10M**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.037	mg/kg	SW846 7471A	07/08-07/09/98	CJCFL10T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8240

TOTAL Metals

Lot-Sample #...: H8F250218-007 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**13400**	**25.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM106**
		Dilution Factor: 1				
Arsenic	**11.2**	**1.3**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFM10R**
		Dilution Factor: 1				
Lead	**12.3**	**0.38**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFM10T**
		Dilution Factor: 1				
Antimony	ND	7.6	mg/kg	SW846 6010A	07/08-07/10/98	CJCFM107
		Dilution Factor: 1				
Barium	**35.3**	**25.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM108**
		Dilution Factor: 1				
Selenium	ND	0.64	mg/kg	SW846 6010A	07/08-07/17/98	CJCFM10U
		Dilution Factor: 1				
Beryllium	ND	0.64	mg/kg	SW846 6010A	07/08-07/10/98	CJCFM109
		Dilution Factor: 1				
Thallium	ND	1.3	mg/kg	SW846 6010A	07/08-07/13/98	CJCFM10V
		Dilution Factor: 1				
Cadmium	ND	0.64	mg/kg	SW846 6010A	07/08-07/10/98	CJCFM10A
		Dilution Factor: 1				
Calcium	**40300**	**635**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10C**
		Dilution Factor: 1				
Chromium	**20.0**	**1.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10D**
		Dilution Factor: 1				
Cobalt	**11.6**	**6.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10E**
		Dilution Factor: 1				
Copper	**34.7**	**3.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10F**
		Dilution Factor: 1				
Iron	**27800**	**12.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10G**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8240

TOTAL Metals

Lot-Sample #...: H8F250218-007 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**11000**	**635**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10H**
		Dilution Factor: 1				
Manganese	**363**	**1.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10J**
		Dilution Factor: 1				
Nickel	**36.0**	**5.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10K**
		Dilution Factor: 1				
Potassium	**3570**	**635**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10L**
		Dilution Factor: 1				
Silver	ND	1.3	mg/kg	SW846 6010A	07/08-07/10/98	CJCFM10M
		Dilution Factor: 1				
Sodium	ND	635	mg/kg	SW846 6010A	07/08-07/10/98	CJCFM10N
		Dilution Factor: 1				
Vanadium	**24.7**	**6.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10P**
		Dilution Factor: 1				
Zinc	**80.0**	**2.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFM10Q**
		Dilution Factor: 1				

Prep Batch #...: 8189210

Mercury	ND	0.042	mg/kg	SW846 7471A	07/08-07/09/98	CJCFM10W
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8660

TOTAL Metals

Lot-Sample #...: H8F250218-008 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**14300**	**24.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN103**
		Dilution Factor: 1				
Arsenic	**9.3**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFN10N**
		Dilution Factor: 1				
Lead	**10.7**	**0.36**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFN10P**
		Dilution Factor: 1				
Antimony	ND	7.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFN104
		Dilution Factor: 1				
Barium	**91.4**	**24.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN105**
		Dilution Factor: 1				
Selenium	ND	0.60	mg/kg	SW846 6010A	07/08-07/17/98	CJCFN10Q
		Dilution Factor: 1				
Beryllium	**0.63**	**0.60**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN106**
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFN10R
		Dilution Factor: 1				
Cadmium	ND	0.60	mg/kg	SW846 6010A	07/08-07/10/98	CJCFN107
		Dilution Factor: 1				
Calcium	**31400**	**602**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN108**
		Dilution Factor: 1				
Chromium	**19.7**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN109**
		Dilution Factor: 1				
Cobalt	**13.0**	**6.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10A**
		Dilution Factor: 1				
Copper	**22.7**	**3.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10C**
		Dilution Factor: 1				
Iron	**24700**	**12.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10D**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8660

TOTAL Metals

Lot-Sample #...: H8F250218-008 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**12200**	**602**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10E**
		Dilution Factor: 1				
Manganese	**781**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10F**
		Dilution Factor: 1				
Nickel	**32.1**	**4.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10G**
		Dilution Factor: 1				
Potassium	**2640**	**602**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10H**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFN10J
		Dilution Factor: 1				
Sodium	ND	602	mg/kg	SW846 6010A	07/08-07/10/98	CJCFN10K
		Dilution Factor: 1				
Vanadium	**36.3**	**6.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10L**
		Dilution Factor: 1				
Zinc	**63.4**	**2.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFN10M**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.040	mg/kg	SW846 7471A	07/08-07/09/98	CJCFN10T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8670

TOTAL Metals

Lot-Sample #...: H8F250218-009 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**11100**	**23.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP106**
		Dilution Factor: 1				
Arsenic	**3.7**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFP10R**
		Dilution Factor: 1				
Lead	**5.9**	**0.35**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFP10T**
		Dilution Factor: 1				
Antimony	ND	7.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCFP107
		Dilution Factor: 1				
Barium	**53.8**	**23.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP108**
		Dilution Factor: 1				
Selenium	ND	0.59	mg/kg	SW846 6010A	07/08-07/17/98	CJCFP10U
		Dilution Factor: 1				
Beryllium	ND	0.59	mg/kg	SW846 6010A	07/08-07/10/98	CJCFP109
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFP10V
		Dilution Factor: 1				
Cadmium	ND	0.59	mg/kg	SW846 6010A	07/08-07/10/98	CJCFP10A
		Dilution Factor: 1				
Calcium	**2480**	**591**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10C**
		Dilution Factor: 1				
Chromium	**13.0**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10D**
		Dilution Factor: 1				
Cobalt	**6.2**	**5.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10E**
		Dilution Factor: 1				
Copper	**9.6**	**3.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10F**
		Dilution Factor: 1				
Iron	**13400**	**11.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10G**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8670

TOTAL Metals

Lot-Sample #...: H8F250218-009 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**2010**	**591**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10H**
		Dilution Factor: 1				
Manganese	**269**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10J**
		Dilution Factor: 1				
Nickel	**13.6**	**4.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10K**
		Dilution Factor: 1				
Potassium	**1370**	**591**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10L**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFP10M
		Dilution Factor: 1				
Sodium	ND	591	mg/kg	SW846 6010A	07/08-07/10/98	CJCFP10N
		Dilution Factor: 1				
Vanadium	**23.2**	**5.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10P**
		Dilution Factor: 1				
Zinc	**45.3**	**2.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFP10Q**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/08-07/09/98	CJCFP10W
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8680

TOTAL Metals

Lot-Sample #...: H8F250218-010 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**13800**	**23.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ103**
		Dilution Factor: 1				
Arsenic	**7.6**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFQ10N**
		Dilution Factor: 1				
Lead	**13.2**	**0.35**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFQ10P**
		Dilution Factor: 1				
Antimony	ND	7.0	mg/kg	SW846 6010A	07/08-07/10/98	CJCFQ104
		Dilution Factor: 1				
Barium	**165**	**23.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ105**
		Dilution Factor: 1				
Selenium	ND	0.59	mg/kg	SW846 6010A	07/08-07/17/98	CJCFQ10Q
		Dilution Factor: 1				
Beryllium	**0.64**	**0.59**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ106**
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFQ10R
		Dilution Factor: 1				
Cadmium	ND	0.59	mg/kg	SW846 6010A	07/08-07/10/98	CJCFQ107
		Dilution Factor: 1				
Calcium	**3480**	**586**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ108**
		Dilution Factor: 1				
Chromium	**12.9**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ109**
		Dilution Factor: 1				
Cobalt	**16.2**	**5.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10A**
		Dilution Factor: 1				
Copper	**18.0**	**2.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10C**
		Dilution Factor: 1				
Iron	**24500**	**11.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10D**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8680

TOTAL Metals

Lot-Sample #...: H8F250218-010 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**4220**	**586**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10E**
		Dilution Factor: 1				
Manganese	**1900**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10F**
		Dilution Factor: 1				
Nickel	**40.8**	**4.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10G**
		Dilution Factor: 1				
Potassium	**2070**	**586**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10H**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFQ10J
		Dilution Factor: 1				
Sodium	ND	586	mg/kg	SW846 6010A	07/08-07/10/98	CJCFQ10K
		Dilution Factor: 1				
Vanadium	**27.7**	**5.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10L**
		Dilution Factor: 1				
Zinc	**75.7**	**2.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFQ10M**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/08-07/09/98	CJCFQ10T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8700

TOTAL Metals

Lot-Sample #...: H8F250218-011 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	20600	24.0	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR106
		Dilution Factor: 1				
Arsenic	11.4	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFR10R
		Dilution Factor: 1				
Lead	11.4	0.36	mg/kg	SW846 6010A	07/08-07/13/98	CJCFR10T
		Dilution Factor: 1				
Antimony	7.4	7.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR107
		Dilution Factor: 1				
Barium	130	24.0	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR108
		Dilution Factor: 1				
Selenium	ND	0.60	mg/kg	SW846 6010A	07/08-07/17/98	CJCFR10U
		Dilution Factor: 1				
Beryllium	1.2	0.60	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR109
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFR10V
		Dilution Factor: 1				
Cadmium	ND	0.60	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR10A
		Dilution Factor: 1				
Calcium	3760	600	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR10C
		Dilution Factor: 1				
Chromium	25.4	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR10D
		Dilution Factor: 1				
Cobalt	17.1	6.0	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR10E
		Dilution Factor: 1				
Copper	30.9	3.0	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR10F
		Dilution Factor: 1				
Iron	36000	12.0	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR10G
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8700

TOTAL Metals

Lot-Sample #...: H8F250218-011 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**4870**	**600**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFR10H**
		Dilution Factor: 1				
Manganese	**982**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFR10J**
		Dilution Factor: 1				
Nickel	**46.9**	**4.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFR10K**
		Dilution Factor: 1				
Potassium	**2590**	**600**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFR10L**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFR10M
		Dilution Factor: 1				
Sodium	**681**	**600**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFR10N**
		Dilution Factor: 1				
Vanadium	**40.5**	**6.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFR10P**
		Dilution Factor: 1				
Zinc	**103**	**2.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFR10Q**
		Dilution Factor: 1				

Prep Batch #...: 8189210

Mercury	**0.040**	**0.040**	**mg/kg**	**SW846 7471A**	**07/08-07/09/98**	**CJCFR10W**
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8710

TOTAL Metals

Lot-Sample #...: H8F250218-012 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**12400**	**24.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT103**
		Dilution Factor: 1				
Arsenic	**11.0**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFT10N**
		Dilution Factor: 1				
Lead	**9.1**	**0.37**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFT10P**
		Dilution Factor: 1				
Antimony	ND	7.4	mg/kg	SW846 6010A	07/08-07/10/98	CJCFT104
		Dilution Factor: 1				
Barium	**117**	**24.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT105**
		Dilution Factor: 1				
Selenium	ND	0.61	mg/kg	SW846 6010A	07/08-07/17/98	CJCFT10Q
		Dilution Factor: 1				
Beryllium	ND	0.61	mg/kg	SW846 6010A	07/08-07/10/98	CJCFT106
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFT10R
		Dilution Factor: 1				
Cadmium	ND	0.61	mg/kg	SW846 6010A	07/08-07/10/98	CJCFT107
		Dilution Factor: 1				
Calcium	**31700**	**613**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT108**
		Dilution Factor: 1				
Chromium	**15.8**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT109**
		Dilution Factor: 1				
Cobalt	**13.0**	**6.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10A**
		Dilution Factor: 1				
Copper	**26.2**	**3.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10C**
		Dilution Factor: 1				
Iron	**29200**	**12.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10D**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8710

TOTAL Metals

Lot-Sample #...: H8F250218-012 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**10100**	**613**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10E**
		Dilution Factor: 1				
Manganese	**1280**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10F**
		Dilution Factor: 1				
Nickel	**33.9**	**4.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10G**
		Dilution Factor: 1				
Potassium	**1830**	**613**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10H**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFT10J
		Dilution Factor: 1				
Sodium	ND	613	mg/kg	SW846 6010A	07/08-07/10/98	CJCFT10K
		Dilution Factor: 1				
Vanadium	**31.0**	**6.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10L**
		Dilution Factor: 1				
Zinc	**70.9**	**2.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFT10M**
		Dilution Factor: 1				

Prep Batch #...: 8189210

Mercury	ND	0.040	mg/kg	SW846 7471A	07/08-07/09/98	CJCFT10T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8720

TOTAL Metals

Lot-Sample #...: H8F250218-013 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**18400**	**25.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV106**
		Dilution Factor: 1				
Arsenic	**9.5**	**1.3**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFV10R**
		Dilution Factor: 1				
Lead	**10.1**	**0.38**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFV10T**
		Dilution Factor: 1				
Antimony	ND	7.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCFV107
		Dilution Factor: 1				
Barium	**118**	**25.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV108**
		Dilution Factor: 1				
Selenium	ND	0.64	mg/kg	SW846 6010A	07/08-07/17/98	CJCFV10U
		Dilution Factor: 1				
Beryllium	**0.82**	**0.64**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV109**
		Dilution Factor: 1				
Thallium	ND	1.3	mg/kg	SW846 6010A	07/08-07/13/98	CJCFV10V
		Dilution Factor: 1				
Cadmium	ND	0.64	mg/kg	SW846 6010A	07/08-07/10/98	CJCFV10A
		Dilution Factor: 1				
Calcium	**13300**	**638**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10C**
		Dilution Factor: 1				
Chromium	**22.7**	**1.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10D**
		Dilution Factor: 1				
Cobalt	**15.0**	**6.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10E**
		Dilution Factor: 1				
Copper	**26.4**	**3.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10F**
		Dilution Factor: 1				
Iron	**31100**	**12.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10G**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8720

TOTAL Metals

Lot-Sample #...: H8F250218-013 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**6970**	**638**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10H**
		Dilution Factor: 1				
Manganese	**1170**	**1.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10J**
		Dilution Factor: 1				
Nickel	**39.3**	**5.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10K**
		Dilution Factor: 1				
Potassium	**3240**	**638**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10L**
		Dilution Factor: 1				
Silver	ND	1.3	mg/kg	SW846 6010A	07/08-07/10/98	CJCFV10M
		Dilution Factor: 1				
Sodium	**726**	**638**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10N**
		Dilution Factor: 1				
Vanadium	**40.3**	**6.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10P**
		Dilution Factor: 1				
Zinc	**81.2**	**2.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFV10Q**
		Dilution Factor: 1				

Prep Batch #...: 8189210

Mercury	ND	0.042	mg/kg	SW846 7471A	07/08-07/09/98	CJCFV10W
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8820

TOTAL Metals

Lot-Sample #...: H8F250218-014 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**6680**	**22.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW106**
		Dilution Factor: 1				
Arsenic	**2.1**	**1.1**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFW10R**
		Dilution Factor: 1				
Lead	**3.4**	**0.34**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFW10T**
		Dilution Factor: 1				
Antimony	ND	6.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCFW107
		Dilution Factor: 1				
Barium	**26.4**	**22.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW108**
		Dilution Factor: 1				
Selenium	ND	0.56	mg/kg	SW846 6010A	07/08-07/17/98	CJCFW10U
		Dilution Factor: 1				
Beryllium	ND	0.56	mg/kg	SW846 6010A	07/08-07/10/98	CJCFW109
		Dilution Factor: 1				
Thallium	ND	1.1	mg/kg	SW846 6010A	07/08-07/13/98	CJCFW10V
		Dilution Factor: 1				
Cadmium	ND	0.56	mg/kg	SW846 6010A	07/08-07/10/98	CJCFW10A
		Dilution Factor: 1				
Calcium	**1620**	**560**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10C**
		Dilution Factor: 1				
Chromium	**9.1**	**1.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10D**
		Dilution Factor: 1				
Cobalt	ND	5.6	mg/kg	SW846 6010A	07/08-07/10/98	CJCFW10E
		Dilution Factor: 1				
Copper	**5.8**	**2.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10F**
		Dilution Factor: 1				
Iron	**10600**	**11.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10G**
		Dilution Factor: 1				

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8820

TOTAL Metals

Lot-Sample #...: H8F250218-014 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**1290**	**560**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10H**
		Dilution Factor: 1				
Manganese	**184**	**1.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10J**
		Dilution Factor: 1				
Nickel	**9.8**	**4.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10K**
		Dilution Factor: 1				
Potassium	**742**	**560**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10L**
		Dilution Factor: 1				
Silver	ND	1.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCFW10M
		Dilution Factor: 1				
Sodium	ND	560	mg/kg	SW846 6010A	07/08-07/10/98	CJCFW10N
		Dilution Factor: 1				
Vanadium	**19.8**	**5.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10P**
		Dilution Factor: 1				
Zinc	**28.7**	**2.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFW10Q**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.037	mg/kg	SW846 7471A	07/08-07/09/98	CJCFW10W
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8830

TOTAL Metals

Lot-Sample #...: H8F250218-015 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**18000**	**24.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX103**
		Dilution Factor: 1				
Arsenic	**9.4**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFX10N**
		Dilution Factor: 1				
Lead	**13.2**	**0.37**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCFX10P**
		Dilution Factor: 1				
Antimony	ND	7.3	mg/kg	SW846 6010A	07/08-07/10/98	CJCFX104
		Dilution Factor: 1				
Barium	**70.0**	**24.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX105**
		Dilution Factor: 1				
Selenium	ND	0.61	mg/kg	SW846 6010A	07/08-07/17/98	CJCFX10Q
		Dilution Factor: 1				
Beryllium	**0.83**	**0.61**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX106**
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCFX10R
		Dilution Factor: 1				
Cadmium	ND	0.61	mg/kg	SW846 6010A	07/08-07/10/98	CJCFX107
		Dilution Factor: 1				
Calcium	**2600**	**610**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX108**
		Dilution Factor: 1				
Chromium	**23.3**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX109**
		Dilution Factor: 1				
Cobalt	**19.0**	**6.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10A**
		Dilution Factor: 1				
Copper	**30.6**	**3.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10C**
		Dilution Factor: 1				
Iron	**32000**	**12.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10D**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8830

TOTAL Metals

Lot-Sample #...: H8F250218-015 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**4480**	**610**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10E**
		Dilution Factor: 1				
Manganese	**898**	**1.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10F**
		Dilution Factor: 1				
Nickel	**42.3**	**4.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10G**
		Dilution Factor: 1				
Potassium	**2430**	**610**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10H**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCFX10J
		Dilution Factor: 1				
Sodium	ND	610	mg/kg	SW846 6010A	07/08-07/10/98	CJCFX10K
		Dilution Factor: 1				
Vanadium	**38.9**	**6.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10L**
		Dilution Factor: 1				
Zinc	**85.1**	**2.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCFX10M**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.040	mg/kg	SW846 7471A	07/08-07/09/98	CJCFX10T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8840

TOTAL Metals

Lot-Sample #...: H8F250218-016 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	17000	25.6	mg/kg	SW846 6010A	07/08-07/10/98	CJCG1103
		Dilution Factor: 1				
Arsenic	9.8	1.3	mg/kg	SW846 6010A	07/08-07/13/98	CJCG110N
		Dilution Factor: 1				
Lead	11.2	0.38	mg/kg	SW846 6010A	07/08-07/13/98	CJCG110P
		Dilution Factor: 1				
Antimony	ND	7.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCG1104
		Dilution Factor: 1				
Barium	83.3	25.6	mg/kg	SW846 6010A	07/08-07/10/98	CJCG1105
		Dilution Factor: 1				
Selenium	ND	0.64	mg/kg	SW846 6010A	07/08-07/17/98	CJCG110Q
		Dilution Factor: 1				
Beryllium	0.75	0.64	mg/kg	SW846 6010A	07/08-07/10/98	CJCG1106
		Dilution Factor: 1				
Thallium	ND	1.3	mg/kg	SW846 6010A	07/08-07/13/98	CJCG110R
		Dilution Factor: 1				
Cadmium	ND	0.64	mg/kg	SW846 6010A	07/08-07/10/98	CJCG1107
		Dilution Factor: 1				
Calcium	34600	640	mg/kg	SW846 6010A	07/08-07/10/98	CJCG1108
		Dilution Factor: 1				
Chromium	25.1	1.3	mg/kg	SW846 6010A	07/08-07/10/98	CJCG1109
		Dilution Factor: 1				
Cobalt	14.5	6.4	mg/kg	SW846 6010A	07/08-07/10/98	CJCG110A
		Dilution Factor: 1				
Copper	30.9	3.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCG110C
		Dilution Factor: 1				
Iron	30000	12.8	mg/kg	SW846 6010A	07/08-07/10/98	CJCG110D
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8840

TOTAL Metals

Lot-Sample #...: H8F250218-016 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**14700**	**640**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG110E**
		Dilution Factor: 1				
Manganese	**568**	**1.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG110F**
		Dilution Factor: 1				
Nickel	**37.9**	**5.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG110G**
		Dilution Factor: 1				
Potassium	**3960**	**640**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG110H**
		Dilution Factor: 1				
Silver	ND	1.3	mg/kg	SW846 6010A	07/08-07/10/98	CJCG110J
		Dilution Factor: 1				
Sodium	ND	640	mg/kg	SW846 6010A	07/08-07/10/98	CJCG110K
		Dilution Factor: 1				
Vanadium	**37.3**	**6.4**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG110L**
		Dilution Factor: 1				
Zinc	**81.6**	**2.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG110M**
		Dilution Factor: 1				

Prep Batch #...: 8189210

Mercury	ND	0.042	mg/kg	SW846 7471A	07/08-07/09/98	CJCG110T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8860

TOTAL Metals

Lot-Sample #...: H8F250218-017 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	13000	22.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCG2103
		Dilution Factor: 1				
Arsenic	8.5	1.1	mg/kg	SW846 6010A	07/08-07/13/98	CJCG210N
		Dilution Factor: 1				
Lead	9.4	0.34	mg/kg	SW846 6010A	07/08-07/13/98	CJCG210P
		Dilution Factor: 1				
Antimony	ND	6.8	mg/kg	SW846 6010A	07/08-07/10/98	CJCG2104
		Dilution Factor: 1				
Barium	66.0	22.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCG2105
		Dilution Factor: 1				
Selenium	ND	0.57	mg/kg	SW846 6010A	07/08-07/17/98	CJCG210Q
		Dilution Factor: 1				
Beryllium	ND	0.57	mg/kg	SW846 6010A	07/08-07/10/98	CJCG2106
		Dilution Factor: 1				
Thallium	ND	1.1	mg/kg	SW846 6010A	07/08-07/13/98	CJCG210R
		Dilution Factor: 1				
Cadmium	ND	0.57	mg/kg	SW846 6010A	07/08-07/10/98	CJCG2107
		Dilution Factor: 1				
Calcium	35600	566	mg/kg	SW846 6010A	07/08-07/10/98	CJCG2108
		Dilution Factor: 1				
Chromium	16.7	1.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCG2109
		Dilution Factor: 1				
Cobalt	11.9	5.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCG210A
		Dilution Factor: 1				
Copper	15.1	2.8	mg/kg	SW846 6010A	07/08-07/10/98	CJCG210C
		Dilution Factor: 1				
Iron	20900	11.3	mg/kg	SW846 6010A	07/08-07/10/98	CJCG210D
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8860

TOTAL Metals

Lot-Sample #...: H8F250218-017 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**9970**	**566**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG210E**
		Dilution Factor: 1				
Manganese	**551**	**1.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG210F**
		Dilution Factor: 1				
Nickel	**19.3**	**4.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG210G**
		Dilution Factor: 1				
Potassium	**2040**	**566**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG210H**
		Dilution Factor: 1				
Silver	ND	1.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCG210J
		Dilution Factor: 1				
Sodium	ND	566	mg/kg	SW846 6010A	07/08-07/10/98	CJCG210K
		Dilution Factor: 1				
Vanadium	**35.0**	**5.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG210L**
		Dilution Factor: 1				
Zinc	**49.8**	**2.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG210M**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.037	mg/kg	SW846 7471A	07/08-07/09/98	CJCG210T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8870

TOTAL Metals

Lot-Sample #...: H8F250218-018 **Matrix.....:** SOLID
Date Sampled...: 06/24/98 **Date Received..:** 06/25/98
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**10900**	**23.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG3106**
		Dilution Factor: 1				
Arsenic	**7.0**	**1.1**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCG310R**
		Dilution Factor: 1				
Lead	**7.4**	**0.34**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCG310T**
		Dilution Factor: 1				
Antimony	ND	6.9	mg/kg	SW846 6010A	07/08-07/10/98	CJCG3107
		Dilution Factor: 1				
Barium	**56.1**	**23.0**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG3108**
		Dilution Factor: 1				
Selenium	ND	0.57	mg/kg	SW846 6010A	07/08-07/17/98	CJCG310U
		Dilution Factor: 1				
Beryllium	ND	0.57	mg/kg	SW846 6010A	07/08-07/10/98	CJCG3109
		Dilution Factor: 1				
Thallium	ND	1.1	mg/kg	SW846 6010A	07/08-07/13/98	CJCG310V
		Dilution Factor: 1				
Cadmium	ND	0.57	mg/kg	SW846 6010A	07/08-07/10/98	CJCG310A
		Dilution Factor: 1				
Calcium	**23500**	**575**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310C**
		Dilution Factor: 1				
Chromium	**16.1**	**1.1**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310D**
		Dilution Factor: 1				
Cobalt	**7.8**	**5.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310E**
		Dilution Factor: 1				
Copper	**15.1**	**2.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310F**
		Dilution Factor: 1				
Iron	**19100**	**11.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310G**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8870

TOTAL Metals

Lot-Sample #...: H8F250218-018 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**8670**	**575**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310H**
		Dilution Factor: 1				
Manganese	**320**	**1.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310J**
		Dilution Factor: 1				
Nickel	**18.6**	**4.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310K**
		Dilution Factor: 1				
Potassium	**1350**	**575**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310L**
		Dilution Factor: 1				
Silver	ND	1.1	mg/kg	SW846 6010A	07/08-07/10/98	CJCG310M
		Dilution Factor: 1				
Sodium	ND	575	mg/kg	SW846 6010A	07/08-07/10/98	CJCG310N
		Dilution Factor: 1				
Vanadium	**29.1**	**5.7**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310P**
		Dilution Factor: 1				
Zinc	**48.2**	**2.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG310Q**
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.038	mg/kg	SW846 7471A	07/08-07/09/98	CJCG310W
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8880

TOTAL Metals

Lot-Sample #...: H8F250218-019 Matrix.....: SOLID
Date Sampled...: 06/24/98 Date Received..: 06/25/98
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8189179						
Aluminum	**12000**	**23.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG4103**
		Dilution Factor: 1				
Arsenic	**4.6**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCG410N**
		Dilution Factor: 1				
Lead	**7.4**	**0.35**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJCG410P**
		Dilution Factor: 1				
Antimony	ND	7.0	mg/kg	SW846 6010A	07/08-07/10/98	CJCG4104
		Dilution Factor: 1				
Barium	**80.3**	**23.3**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG4105**
		Dilution Factor: 1				
Selenium	ND	0.58	mg/kg	SW846 6010A	07/08-07/17/98	CJCG410Q
		Dilution Factor: 1				
Beryllium	ND	0.58	mg/kg	SW846 6010A	07/08-07/10/98	CJCG4106
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/08-07/13/98	CJCG410R
		Dilution Factor: 1				
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/08-07/10/98	CJCG4107
		Dilution Factor: 1				
Calcium	**5120**	**582**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG4108**
		Dilution Factor: 1				
Chromium	**16.9**	**1.2**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG4109**
		Dilution Factor: 1				
Cobalt	**10.1**	**5.8**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG410A**
		Dilution Factor: 1				
Copper	**15.7**	**2.9**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG410C**
		Dilution Factor: 1				
Iron	**18800**	**11.6**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJCG410D**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8880

TOTAL Metals

Lot-Sample #...: H8F250218-019 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	3690	582	mg/kg	SW846 6010A	07/08-07/10/98	CJCG410E
		Dilution Factor: 1				
Manganese	484	1.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCG410F
		Dilution Factor: 1				
Nickel	28.7	4.7	mg/kg	SW846 6010A	07/08-07/10/98	CJCG410G
		Dilution Factor: 1				
Potassium	1710	582	mg/kg	SW846 6010A	07/08-07/10/98	CJCG410H
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/08-07/10/98	CJCG410J
		Dilution Factor: 1				
Sodium	619	582	mg/kg	SW846 6010A	07/08-07/10/98	CJCG410K
		Dilution Factor: 1				
Vanadium	24.1	5.8	mg/kg	SW846 6010A	07/08-07/10/98	CJCG410L
		Dilution Factor: 1				
Zinc	77.5	2.3	mg/kg	SW846 6010A	07/08-07/10/98	CJCG410M
		Dilution Factor: 1				
Prep Batch #...: 8189210						
Mercury	ND	0.038	mg/kg	SW846 7471A	07/08-07/09/98	CJCG410T
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G080000-179 **Prep Batch #...:** 8189179						
Aluminum	ND	20.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL29101
		Dilution Factor: 1				
Arsenic	ND	1.0	mg/kg	SW846 6010A	07/08-07/13/98	CJL2910P
		Dilution Factor: 1				
Antimony	ND	6.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL29102
		Dilution Factor: 1				
Lead	**0.30**	**0.30**	**mg/kg**	**SW846 6010A**	**07/08-07/13/98**	**CJL2910J**
		Dilution Factor: 1				
Barium	ND	20.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL29103
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010A	07/08-07/17/98	CJL2910K
		Dilution Factor: 1				
Beryllium	ND	0.50	mg/kg	SW846 6010A	07/08-07/10/98	CJL29104
		Dilution Factor: 1				
Thallium	ND	1.0	mg/kg	SW846 6010A	07/08-07/13/98	CJL2910L
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010A	07/08-07/10/98	CJL29105
		Dilution Factor: 1				
Calcium	ND	500	mg/kg	SW846 6010A	07/08-07/10/98	CJL29106
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL2910F
		Dilution Factor: 1				
Cobalt	ND	5.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL2910G
		Dilution Factor: 1				
Copper	**3.4**	**2.5**	**mg/kg**	**SW846 6010A**	**07/08-07/10/98**	**CJL2910H**
		Dilution Factor: 1				
Iron	ND	10.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL29107
		Dilution Factor: 1				
Magnesium	ND	500	mg/kg	SW846 6010A	07/08-07/10/98	CJL29108
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	ND	1.5	mg/kg	SW846 6010A	07/08-07/10/98	CJL29109
		Dilution Factor: 1				
Nickel	ND	4.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL2910A
		Dilution Factor: 1				
Potassium	ND	500	mg/kg	SW846 6010A	07/08-07/10/98	CJL2910C
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL2910D
		Dilution Factor: 1				
Sodium	ND	500	mg/kg	SW846 6010A	07/08-07/10/98	CJL2910E
		Dilution Factor: 1				
Vanadium	ND	5.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL2910M
		Dilution Factor: 1				
Zinc	ND	2.0	mg/kg	SW846 6010A	07/08-07/10/98	CJL2910N
		Dilution Factor: 1				

MB Lot-Sample #: H8G080000-210 **Prep Batch #...:** 8189210

Mercury	ND	0.033	mg/kg	SW846 7471A	07/08-07/09/98	CJL77101
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID

LCS Lot-Sample#: H8G080000-179 **Prep Batch #...:** 8189179

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	200	219	mg/kg	109	SW846 6010A	07/08-07/10/98	CJL2910Q
		Dilution Factor: 1					
Antimony	50.0	54.6	mg/kg	109	SW846 6010A	07/08-07/10/98	CJL2910R
		Dilution Factor: 1					
Barium	200	192	mg/kg	96	SW846 6010A	07/08-07/10/98	CJL2910T
		Dilution Factor: 1					
Beryllium	5.00	5.02	mg/kg	100	SW846 6010A	07/08-07/10/98	CJL2910U
		Dilution Factor: 1					
Cadmium	5.00	5.12	mg/kg	102	SW846 6010A	07/08-07/10/98	CJL2910V
		Dilution Factor: 1					
Calcium	5000	5190	mg/kg	104	SW846 6010A	07/08-07/10/98	CJL2910W
		Dilution Factor: 1					
Copper	25.0	24.0	mg/kg	96	SW846 6010A	07/08-07/10/98	CJL2910X
		Dilution Factor: 1					
Lead	50.0	45.5	mg/kg	91	SW846 6010A	07/08-07/13/98	CJL2911A
		Dilution Factor: 1					
Selenium	200	173	mg/kg	87	SW846 6010A	07/08-07/17/98	CJL2911C
		Dilution Factor: 1					
Thallium	200	175	mg/kg	87	SW846 6010A	07/08-07/13/98	CJL2911D
		Dilution Factor: 1					
Vanadium	50.0	48.6	mg/kg	97	SW846 6010A	07/08-07/10/98	CJL2911E
		Dilution Factor: 1					
Zinc	50.0	50.1	mg/kg	100	SW846 6010A	07/08-07/10/98	CJL2911F
		Dilution Factor: 1					
Iron	100	96.3	mg/kg	96	SW846 6010A	07/08-07/10/98	CJL29110
		Dilution Factor: 1					
Magnesium	5000	5090	mg/kg	102	SW846 6010A	07/08-07/10/98	CJL29111
		Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	50.0	48.0	mg/kg	96	SW846 6010A	07/08-07/10/98	CJL29112
		Dilution Factor: 1					
Nickel	50.0	48.8	mg/kg	98	SW846 6010A	07/08-07/10/98	CJL29113
		Dilution Factor: 1					
Potassium	5000	5180	mg/kg	104	SW846 6010A	07/08-07/10/98	CJL29114
		Dilution Factor: 1					
Silver	5.00	4.02	mg/kg	80	SW846 6010A	07/08-07/10/98	CJL29115
		Dilution Factor: 1					
Sodium	5000	5330	mg/kg	107	SW846 6010A	07/08-07/10/98	CJL29116
		Dilution Factor: 1					
Chromium	20.0	19.8	mg/kg	99	SW846 6010A	07/08-07/10/98	CJL29117
		Dilution Factor: 1					
Cobalt	50.0	49.3	mg/kg	99	SW846 6010A	07/08-07/10/98	CJL29118
		Dilution Factor: 1					
Arsenic	200	182 s	mg/kg	91	SW846 6010A	07/08-07/13/98	CJL29119
		Dilution Factor: 1					

LCS Lot-Sample#: H8G080000-210 **Prep Batch #...:** 8189210

Mercury	0.833	0.782	mg/kg	94	SW846 7471A	07/08-07/09/98	CJL77102
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F250218-001 **Prep Batch #...:** 8189179									
Aluminum									
	16500	236	27400	mg/kg			SW846 6010A	07/08-07/10/98	CJCFE10G
			Qualifiers: NC,MSB						
	16500	236	24400	mg/kg			SW846 6010A	07/08-07/10/98	CJCFE10H
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Arsenic									
	8.1	236	199	mg/kg	81		SW846 6010A	07/08-07/13/98	CJCFE129
	8.1	236	211	mg/kg	86	5.8	SW846 6010A	07/08-07/13/98	CJCFE12A
			Dilution Factor: 1						
Antimony									
	ND	58.9	31.1 N	mg/kg	42		SW846 6010A	07/08-07/10/98	CJCFE10K
	ND	58.9	29.0 N	mg/kg	38	6.9	SW846 6010A	07/08-07/10/98	CJCFE10L
			Dilution Factor: 1						
Lead									
	11.7	58.9	57.7 N	mg/kg	78		SW846 6010A	07/08-07/13/98	CJCFE12D
	11.7	58.9	62.5	mg/kg	86	7.9	SW846 6010A	07/08-07/13/98	CJCFE12E
			Dilution Factor: 1						
Barium									
	112	236	368	mg/kg	108		SW846 6010A	07/08-07/10/98	CJCFE10N
	112	236	430 N	mg/kg	135	16	SW846 6010A	07/08-07/10/98	CJCFE10P
			Dilution Factor: 1						
Selenium									
	ND	236	187 N	mg/kg	79		SW846 6010A	07/08-07/17/98	CJCFE12G
	ND	236	199	mg/kg	84	6.3	SW846 6010A	07/08-07/17/98	CJCFE12H
			Dilution Factor: 1						
Beryllium									
	0.76	5.89	6.82	mg/kg	103		SW846 6010A	07/08-07/10/98	CJCFE10R
	0.76	5.89	7.09	mg/kg	108	3.9	SW846 6010A	07/08-07/10/98	CJCFE10T
			Dilution Factor: 1						
Thallium									
	ND	236	180 N	mg/kg	76		SW846 6010A	07/08-07/13/98	CJCFE12K
	ND	236	189	mg/kg	80	5.4	SW846 6010A	07/08-07/13/98	CJCFE12L
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium									
	0.59	5.89	6.55	mg/kg	101		SW846 6010A	07/08-07/10/98	CJCFE10V
	0.59	5.89	7.56	mg/kg	118	14	SW846 6010A	07/08-07/10/98	CJCFE10W
			Dilution Factor: 1						
Calcium									
	2710	5890	8600	mg/kg	100		SW846 6010A	07/08-07/10/98	CJCFE110
	2710	5890	9090	mg/kg	108	5.5	SW846 6010A	07/08-07/10/98	CJCFE111
			Dilution Factor: 1						
Chromium									
	19.9	23.6	49.0 N	mg/kg	124		SW846 6010A	07/08-07/10/98	CJCFE113
	19.9	23.6	25.0 N,*	mg/kg	22	65	SW846 6010A	07/08-07/10/98	CJCFE114
			Dilution Factor: 1						
Cobalt									
	17.9	58.9	80.7	mg/kg	107		SW846 6010A	07/08-07/10/98	CJCFE116
	17.9	58.9	94.4 N	mg/kg	130	16	SW846 6010A	07/08-07/10/98	CJCFE117
			Dilution Factor: 1						
Copper									
	21.4	29.4	49.3	mg/kg	95		SW846 6010A	07/08-07/10/98	CJCFE119
	21.4	29.4	53.8	mg/kg	110	8.8	SW846 6010A	07/08-07/10/98	CJCFE11A
			Dilution Factor: 1						
Iron									
	30200	118	28800	mg/kg			SW846 6010A	07/08-07/10/98	CJCFE11D
			Qualifiers: NC,MSB						
	30200	118	31000	mg/kg			SW846 6010A	07/08-07/10/98	CJCFE11E
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Magnesium									
	3760	5890	10600	mg/kg	115		SW846 6010A	07/08-07/10/98	CJCFE11G
	3760	5890	10800	mg/kg	119	2.2	SW846 6010A	07/08-07/10/98	CJCFE11H
			Dilution Factor: 1						
Manganese									
	1340	58.9	1480	mg/kg			SW846 6010A	07/08-07/10/98	CJCFE11K
			Qualifiers: NC,MSB						
	1340	58.9	3590	mg/kg			SW846 6010A	07/08-07/10/98	CJCFE11L
			Qualifiers: NC,MSB						
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	44.3	58.9	97.8	mg/kg	91		SW846 6010A	07/08-07/10/98	CJCFE11N
	44.3	58.9	132 N,*	mg/kg	150	30	SW846 6010A	07/08-07/10/98	CJCFE11P
			Dilution Factor: 1						
Potassium									
	2970	5890	12800 N	mg/kg	167		SW846 6010A	07/08-07/10/98	CJCFE11R
	2970	5890	11700 N	mg/kg	148	9.4	SW846 6010A	07/08-07/10/98	CJCFE11T
			Dilution Factor: 1						
Silver									
	ND	5.89	4.39 N	mg/kg	75		SW846 6010A	07/08-07/10/98	CJCFE11V
	ND	5.89	5.00	mg/kg	85	13	SW846 6010A	07/08-07/10/98	CJCFE11W
			Dilution Factor: 1						
Sodium									
	ND	5890	6380	mg/kg	105		SW846 6010A	07/08-07/10/98	CJCFE120
	ND	5890	6590	mg/kg	109	3.2	SW846 6010A	07/08-07/10/98	CJCFE121
			Dilution Factor: 1						
Vanadium									
	32.5	58.9	108 N	mg/kg	127		SW846 6010A	07/08-07/10/98	CJCFE123
	32.5	58.9	107 N	mg/kg	126	0.90	SW846 6010A	07/08-07/10/98	CJCFE124
			Dilution Factor: 1						
Zinc									
	111	58.9	166	mg/kg	94		SW846 6010A	07/08-07/10/98	CJCFE126
	111	58.9	181	mg/kg	120	8.6	SW846 6010A	07/08-07/10/98	CJCFE127
			Dilution Factor: 1						

MS Lot-Sample #: H8F250218-001 **Prep Batch #...:** 8189210

Mercury									
	ND	0.196	0.222	mg/kg	97		SW846 7471A	07/08-07/09/98	CJCFE12N
	ND	0.196	0.224	mg/kg	98	0.88	SW846 7471A	07/08-07/09/98	CJCFE12P
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F250218-001 **Prep Batch #...:** 8189179							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE10G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/08-07/10/98	CJCFE10H
		Dilution Factor: 1					
Arsenic	81	(80 - 120)			SW846 6010A	07/08-07/13/98	CJCFE129
	86	(80 - 120)	5.8	(0-20)	SW846 6010A	07/08-07/13/98	CJCFE12A
		Dilution Factor: 1					
Antimony	42 N	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE10K
	38 N	(80 - 120)	6.9	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE10L
		Dilution Factor: 1					
Lead	78 N	(80 - 120)			SW846 6010A	07/08-07/13/98	CJCFE12D
	86	(80 - 120)	7.9	(0-20)	SW846 6010A	07/08-07/13/98	CJCFE12E
		Dilution Factor: 1					
Barium	108	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE10N
	135 N	(80 - 120)	16	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE10P
		Dilution Factor: 1					
Selenium	79 N	(80 - 120)			SW846 6010A	07/08-07/17/98	CJCFE12G
	84	(80 - 120)	6.3	(0-20)	SW846 6010A	07/08-07/17/98	CJCFE12H
		Dilution Factor: 1					
Beryllium	103	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE10R
	108	(80 - 120)	3.9	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE10T
		Dilution Factor: 1					
Thallium	76 N	(80 - 120)			SW846 6010A	07/08-07/13/98	CJCFE12K
	80	(80 - 120)	5.4	(0-20)	SW846 6010A	07/08-07/13/98	CJCFE12L
		Dilution Factor: 1					
Cadmium	101	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE10V
	118	(80 - 120)	14	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE10W
		Dilution Factor: 1					
Calcium	100	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE110
	108	(80 - 120)	5.5	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE111
		Dilution Factor: 1					
Chromium	124 N	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE113
	22 N,*	(80 - 120)	65	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE114
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	107	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE116
	130 N	(80 - 120)	16	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE117
		Dilution Factor: 1					
Copper	95	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE119
	110	(80 - 120)	8.8	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE11A
		Dilution Factor: 1					
Iron	NC,MSB	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE11D
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/08-07/10/98	CJCFE11E
		Dilution Factor: 1					
Magnesium	115	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE11G
	119	(80 - 120)	2.2	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE11H
		Dilution Factor: 1					
Manganese	NC,MSB	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE11K
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/08-07/10/98	CJCFE11L
		Dilution Factor: 1					
Nickel	91	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE11N
	150 N,*	(80 - 120)	30	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE11P
		Dilution Factor: 1					
Potassium	167 N	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE11R
	148 N	(80 - 120)	9.4	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE11T
		Dilution Factor: 1					
Silver	75 N	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE11V
	85	(80 - 120)	13	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE11W
		Dilution Factor: 1					
Sodium	105	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE120
	109	(80 - 120)	3.2	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE121
		Dilution Factor: 1					
Vanadium	127 N	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE123
	126 N	(80 - 120)	0.90	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE124
		Dilution Factor: 1					
Zinc	94	(80 - 120)			SW846 6010A	07/08-07/10/98	CJCFE126
	120	(80 - 120)	8.6	(0-20)	SW846 6010A	07/08-07/10/98	CJCFE127
		Dilution Factor: 1					

MS Lot-Sample #: H8F250218-001 **Prep Batch #...:** 8189210

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID
Date Sampled...: 06/23/98 **Date Received..:** 06/25/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury	97	(55 - 130)			SW846 7471A	07/08-07/09/98	CJCFE12N
	98	(55 - 130)	0.88	(0-20)	SW846 7471A	07/08-07/09/98	CJCFE12P

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8G080000-179 **Prep Batch #...:** 8189179					
Aluminum	109	(89 - 119)	SW846 6010A	07/08-07/10/98	CJL2910Q
		Dilution Factor: 1			
Antimony	109	(86 - 119)	SW846 6010A	07/08-07/10/98	CJL2910R
		Dilution Factor: 1			
Barium	96	(88 - 110)	SW846 6010A	07/08-07/10/98	CJL2910T
		Dilution Factor: 1			
Beryllium	100	(80 - 118)	SW846 6010A	07/08-07/10/98	CJL2910U
		Dilution Factor: 1			
Cadmium	102	(80 - 113)	SW846 6010A	07/08-07/10/98	CJL2910V
		Dilution Factor: 1			
Calcium	104	(84 - 117)	SW846 6010A	07/08-07/10/98	CJL2910W
		Dilution Factor: 1			
Copper	96	(86 - 111)	SW846 6010A	07/08-07/10/98	CJL2910X
		Dilution Factor: 1			
Lead	91	(84 - 110)	SW846 6010A	07/08-07/13/98	CJL2911A
		Dilution Factor: 1			
Selenium	87	(80 - 110)	SW846 6010A	07/08-07/17/98	CJL2911C
		Dilution Factor: 1			
Thallium	87	(83 - 110)	SW846 6010A	07/08-07/13/98	CJL2911D
		Dilution Factor: 1			
Vanadium	97	(89 - 113)	SW846 6010A	07/08-07/10/98	CJL2911E
		Dilution Factor: 1			
Zinc	100	(89 - 118)	SW846 6010A	07/08-07/10/98	CJL2911F
		Dilution Factor: 1			
Iron	96	(87 - 120)	SW846 6010A	07/08-07/10/98	CJL29110
		Dilution Factor: 1			
Magnesium	102	(86 - 119)	SW846 6010A	07/08-07/10/98	CJL29111
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB035 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	96	(89 - 112)	SW846 6010A	07/08-07/10/98	CJL29112
		Dilution Factor: 1			
Nickel	98	(88 - 115)	SW846 6010A	07/08-07/10/98	CJL29113
		Dilution Factor: 1			
Potassium	104	(83 - 113)	SW846 6010A	07/08-07/10/98	CJL29114
		Dilution Factor: 1			
Silver	80	(80 - 117)	SW846 6010A	07/08-07/10/98	CJL29115
		Dilution Factor: 1			
Sodium	107	(85 - 115)	SW846 6010A	07/08-07/10/98	CJL29116
		Dilution Factor: 1			
Chromium	99	(87 - 118)	SW846 6010A	07/08-07/10/98	CJL29117
		Dilution Factor: 1			
Cobalt	99	(87 - 110)	SW846 6010A	07/08-07/10/98	CJL29118
		Dilution Factor: 1			
Arsenic	91	(83 - 110)	SW846 6010A	07/08-07/13/98	CJL29119
		Dilution Factor: 1			

LCS Lot-Sample#: H8G080000-210 **Prep Batch #...:** 8189210

Mercury	94	(80 - 120)	SW846 7471A	07/08-07/09/98	CJL77102
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB035

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	TOTAL	EXP
				8260A	8270B	8081	6010A	8330
1	6/25/98	H8F250218	8180	QC	QC	QC	QC	QC
2			8181	X	X	X	X	X
3			8190				X	X
4			8200				X	X
5			8220				X	X
6			8230				X	X
7			8240	X	X	X	X	X
8			8660				X	X
9			8670	X	X	X	X	X
10			8680				X	X
11			8700	X	X	X	X	X
12			8710				X	X
13			8720				X	X
14			8820	X	X	X	X	X
15			8830				X	X
16			8840				X	X
17			8860				X	X
18			8870	X	X	X	X	X
19			8880				X	X
20								
21								

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: SOIL
ANALYTICAL DUE: 7-10-98
REPORT DUE: 7-15-98
CLOSED?__YES__

7/14/98 9:45 AM

12/9

H8F250218

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062498QESK

Project Number: 773701

Samples Shipment Date: 24-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850101

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown |X|

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/24/98 Time: 1600

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client | | Disposal by Lab |X| Archive (mos.)

1. Received By (Signature/Affiliation) K. Woolcock QES Date: 6-25-98 Time: 10:00

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L LITER TOTAL METALS; 1L FILTERED METALS

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8170	PBOW-98-GW-WARP-DP02-8170	24-JUN-98	12:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		Rec'd w/custody seals intact @ 4°C [illegible] 6-25-98
8170	PBOW-98-GW-WARP-DP02-8170	24-JUN-98	12:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8170	PBOW-98-GW-WARP-DP02-8170	24-JUN-98	12:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8170-MS	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
8170-MS	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8170-MS	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8170-MSD	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in	N		

H8F250218

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062498QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
							water			
8170-MSD	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8170-MSD	PBOW-98-GW-WARP-DP01-8170	24-JUN-98	12:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8180	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8180	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8180	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8180	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8180MS	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8180MS	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8180MS	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8180MS	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8180MSD	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8180MSD	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8180MSD	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8180MSD	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8181	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8181	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8181	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8181	PBOW-98-SO-WARP-DP03-8180-(000	23-JUN-98	14:20	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8190	PBOW-98-SO-WARP-DP03-8190-(040	23-JUN-98	14:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8190	PBOW-98-SO-WARP-DP03-8190-(040	23-JUN-98	14:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8200	PBOW-98-SO-WARP-DP03-8200-(091	23-JUN-98	14:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8200	PBOW-98-SO-WARP-DP03-8200-(091	23-JUN-98	14:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8220	PBOW-98-SO-WARP-DP04-8220-(000	23-JUN-98	15:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8220	PBOW-98-SO-WARP-DP04-8220-(000	23-JUN-98	15:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8230	PBOW-98-SO-WARP-DP04-8230-(040	23-JUN-98	15:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8230	PBOW-98-SO-WARP-DP04-8230-(040	23-JUN-98	15:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8240	PBOW-98-SO-WARP-DP04-8240-(091	23-JUN-98	16:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8240	PBOW-98-SO-WARP-DP04-8240-(091	23-JUN-98	16:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8240	PBOW-98-SO-WARP-DP04-8240-(091	23-JUN-98	16:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8240	PBOW-98-SO-WARP-DP04-8240-(091	23-JUN-98	16:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8250	PBOW-98-GW-WARP-DP04-8250	24-JUN-98	15:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

H8F250218

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062498QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8250	PBOW-98-GW-WARP-DP04-8250	24-JUN-98	15:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		2 VIALS BROKEN
8251	PBOW-98-GW-WARP-DP04-8250	24-JUN-98	15:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8251	PBOW-98-GW-WARP-DP04-8250	24-JUN-98	15:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8330	PBOW-98-GW-WARP-DP06-8330	23-JUN-98	16:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8330	PBOW-98-GW-WARP-DP06-8330	23-JUN-98	16:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8660	PBOW-98-SO-WARP-DP15-8660-(000	24-JUN-98	10:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8660	PBOW-98-SO-WARP-DP15-8660-(000	24-JUN-98	10:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8670	PBOW-98-SO-WARP-DP15-8670-(040	24-JUN-98	10:55	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8670	PBOW-98-SO-WARP-DP15-8670-(040	24-JUN-98	10:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8670	PBOW-98-SO-WARP-DP15-8670-(040	24-JUN-98	10:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8670	PBOW-98-SO-WARP-DP15-8670-(040	24-JUN-98	10:55	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8680	PBOW-98-SO-WARP-DP15-8680-(091	24-JUN-98	11:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8680	PBOW-98-SO-WARP-DP15-8680-(091	24-JUN-98	11:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8700	PBOW-98-SO-WARP-DP16-8700-(000	24-JUN-98	13:35	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8700	PBOW-98-SO-WARP-DP16-8700-(000	24-JUN-98	13:35	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8700	PBOW-98-SO-WARP-DP16-8700-(000	24-JUN-98	13:35	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8700	PBOW-98-SO-WARP-DP16-8700-(000	24-JUN-98	13:35	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8710	PBOW-98-SO-WARP-DP16-8710-(040	24-JUN-98	13:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8710	PBOW-98-SO-WARP-DP16-8710-(040	24-JUN-98	13:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8720	PBOW-98-SO-WARP-DP16-8720-(091	24-JUN-98	13:45	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8720	PBOW-98-SO-WARP-DP16-8720-(091	24-JUN-98	13:45	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8820	PBOW-98-SO-WARP-DP19-8820-(000	24-JUN-98	09:05	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8820	PBOW-98-SO-WARP-DP19-8820-(000	24-JUN-98	09:05	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8820	PBOW-98-SO-WARP-DP19-8820-(000	24-JUN-98	09:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8820	PBOW-98-SO-WARP-DP19-8820-(000	24-JUN-98	09:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8830	PBOW-98-SO-WARP-DP19-8830-(040	24-JUN-98	09:10	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8830	PBOW-98-SO-WARP-DP19-8830-(040	24-JUN-98	09:10	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8840	PBOW-98-SO-WARP-DP19-8840-(091	24-JUN-98	09:15	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8840	PBOW-98-SO-WARP-DP19-8840-(091	24-JUN-98	09:15	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8860	PBOW-98-SO-WARP-DP20-8860-(000	24-JUN-98	09:55	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8860	PBOW-98-SO-WARP-DP20-8860-(000	24-JUN-98	09:55	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8870	PBOW-98-SO-WARP-DP20-8870-(040	24-JUN-98	10:00	8 oz CWM	1	None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		

(48F250218

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062498QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8870	PBOW-98-SO-WARP-DP20-8870-(040	24-JUN-98	10:00	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8870	PBOW-98-SO-WARP-DP20-8870-(040	24-JUN-98	10:00	4 oz CWM	2	None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8870	PBOW-98-SO-WARP-DP20-8870-(040	24-JUN-98	10:00	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8880	PBOW-98-SO-WARP-DP20-8880-(091	24-JUN-98	10:05	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8880	PBOW-98-SO-WARP-DP20-8880-(091	24-JUN-98	10:05	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
9035		24-JUN-98	10:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST
Page 1 of ____

CLIENT: IT. Corp **PROJECT:** Plumbrook PK. **Lot No.:** H8F250218

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?		✓	
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] **DATE:** 6-26-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 23581			
b. Informed Login associates of special instructions ?			✓
2. If custody seals were missing/not intact, was client notified?			

PROJECT MANAGER : [signature] **DATE:** 6/25/98

debte

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
8250	VOA 8260A	3b	2 Vials Broken
ALL		2a, 2b	TEMP BLANKS FROZEN
			*frozen as received.

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: [signature] Date: 6/25/98

Redo sheet; these are "waters" LOT

QA026R5.doc, 03/03/98

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other: _____
Temperature:	2a Temp Blank = FROZEN
	2b Cooler Temp = 4°C
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken One vial intact [illegible] 6-25-98
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative: _____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other: _____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other: _____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other: _____

Other (8): _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PBOW Lot No.: H8F250218

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		✓
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?	✓		
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?	✓		
c. Were all issues resolved?	✓		

LOT FOLDER REVIEWED BY: [signature] DATE: 6/29/98

QA016R7.doc, 01/29/98

Quanterra Environmental Services

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

ANALYTICAL REPORT

PROJECT NO. 773701

PBOW-Red Water Ponds
SDG #: PB036

Kim Napier

IT Corporation - Knoxville

QUANTERRA INCORPORATED

John D. Reynolds
Project Manager

July 31, 1998

Quanterra
Environmental Services

SAMPLE SUMMARY

PB036 : H8F260208

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CJDJC	001	8740	06/25/98	14:15
CJDJD	002	8760	06/25/98	14:30
CJDJE	003	8790	06/25/98	15:40
CJDJF	004	8800	06/25/98	15:50
CJDJG	005	7360R	06/25/98	10:30
CJDJH	006	7380R	06/25/98	10:40
CJDJJ	007	7520R	06/25/98	09:30
CJDJK	008	7540R	06/25/98	09:50
CJDJL	009	8750	06/25/98	14:20
CJDJM	010	8780	06/25/98	15:30
CJDJN	011	8781	06/25/98	15:30
CJDJP	012	7530R	06/25/98	09:40
CJDJQ	013	7531R	06/25/98	09:40

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

SDG SAMPLE SUMMARY REPORT

PB036

IT CORPORATION - KNOXVILLE 00099266

LOT-SAMPLE #	QC	RECEIPT DATE	CLIENT SAMPLE ID
H8F260208-001		06/26/98	8740
H8F260208-002		06/26/98	8760
H8F260208-003		06/26/98	8790
H8F260208-004		06/26/98	8800
H8F260208-005		06/26/98	7360R
H8F260208-006		06/26/98	7380R
H8F260208-007		06/26/98	7520R
H8F260208-008		06/26/98	7540R
H8F260208-009		06/26/98	8750
H8F260208-010		06/26/98	8780
H8F260208-010	D	06/26/98	8780
H8F260208-010	S	06/26/98	8780
H8F260208-011		06/26/98	8781
H8F260208-012		06/26/98	7530R
H8F260208-012	D	06/26/98	7530R
H8F260208-012	S	06/26/98	7530R
H8F260208-013		06/26/98	7531R

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

PB036

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides and PCBs	SW846 8081
Percent Moisture	MCAWW 160.3 MOD
Semivolatile Organic Compounds by GC/MS	SW846 8270B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010A
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Volatiles

Internal standard and surrogate recoveries for sample 8780 were outside control limits. However, since the associated matrix spike/matrix spike duplicate for this sample demonstrated similar results, the results are attributed to sample matrix effects.

PCBs

Surrogate recoveries for sample 8781 were outside control limits. However, re-extraction and re-analysis was not possible due to insufficient sample extract.. All sample results have been reported

Explosives

The laboratory control sample results were outside control limits for 2,4,6-trinitrotoluene. However, matrix spike/matrix spike duplicate recoveries and all sample surrogate recoveries were acceptable, indicating that the problem was confined to the laboratory control sample. Thus, the validity of the sample results is not adversely affected.

Metals

The matrix spike/matrix spike duplicate recoveries and/or RPDs for samples 8780 and 7530R were outside control limits for some analytes. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, results outside of limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

The serial dilution of sample 7530R was outside control limits due to physical or chemical matrix interferences.

Sample 7530R was analyzed at a dilution on the SuperTrace ICP due to the high calcium concentration in the sample.

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Quanterra Incorporated, Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New Mexico ED, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8750

GC/MS Volatiles

Lot-Sample #...: H8F260208-009 **Work Order #...:** CJDJL102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethene (total)	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
Trichloroethene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Benzene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Toluene	**2.2 J**	**6.1**	**ug/kg**
Chlorobenzene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
Styrene	ND	6.1	ug/kg
Xylenes (total)	ND	6.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	79	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8750

GC/MS Volatiles

Lot-Sample #...: H8F260208-009 Work Order #...: CJDJL102 Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8780

GC/MS Volatiles

Lot-Sample #...: H8F260208-010 **Work Order #...:** CJDJM102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	**1.9 J,B**	**5.7**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.7	ug/kg
1,1-Dichloroethene	ND	5.7	ug/kg
1,1-Dichloroethane	ND	5.7	ug/kg
1,2-Dichloroethene (total)	ND	5.7	ug/kg
Chloroform	ND	5.7	ug/kg
1,2-Dichloroethane	ND	5.7	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.7	ug/kg
Carbon tetrachloride	ND	5.7	ug/kg
Bromodichloromethane	ND	5.7	ug/kg
1,2-Dichloropropane	ND	5.7	ug/kg
cis-1,3-Dichloropropene	ND	5.7	ug/kg
Trichloroethene	ND	5.7	ug/kg
Dibromochloromethane	ND	5.7	ug/kg
1,1,2-Trichloroethane	ND	5.7	ug/kg
Benzene	ND	5.7	ug/kg
trans-1,3-Dichloropropene	ND	5.7	ug/kg
Bromoform	ND	5.7	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
Toluene	ND	5.7	ug/kg
Chlorobenzene	ND	5.7	ug/kg
Ethylbenzene	ND	5.7	ug/kg
Styrene	ND	5.7	ug/kg
Xylenes (total)	ND	5.7	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(64 - 135)
Toluene-d8	108	(77 - 124)
4-Bromofluorobenzene	86	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8780

GC/MS Volatiles

Lot-Sample #...: H8F260208-010 **Work Order #...:** CJDJM102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8781

GC/MS Volatiles

Lot-Sample #...:	H8F260208-011	**Work Order #...:**	CJDJN202	**Matrix.....:**	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	07/02/98	**Analysis Date..:**	07/02/98		
Prep Batch #...:	8183140				
Dilution Factor:	1				
% Moisture.....:	13	**Method.....:**	SW846 8260A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**3.1 J,B**	**5.8**	**ug/kg**
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(64 - 135)
Toluene-d8	102	(77 - 124)
4-Bromofluorobenzene	83	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8781

GC/MS Volatiles

Lot-Sample #...: H8F260208-011 **Work Order #...:** CJDJN202 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7530R

GC/MS Volatiles

Lot-Sample #...: H8F260208-012 **Work Order #...:** CJDJP102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	**1.7 J**	**6.2**	**ug/kg**
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(64 - 135)
Toluene-d8	98	(77 - 124)
4-Bromofluorobenzene	80	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7530R

GC/MS Volatiles

Lot-Sample #...: H8F260208-012 **Work Order #...:** CJDJP102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7531R

GC/MS Volatiles

Lot-Sample #...: H8F260208-013 **Work Order #...:** CJDJQ102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	13	ug/kg
Bromomethane	ND	13	ug/kg
Vinyl chloride	ND	13	ug/kg
Chloroethane	ND	13	ug/kg
Methylene chloride	ND	6.3	ug/kg
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.3	ug/kg
1,1-Dichloroethene	ND	6.3	ug/kg
1,1-Dichloroethane	ND	6.3	ug/kg
1,2-Dichloroethene (total)	ND	6.3	ug/kg
Chloroform	ND	6.3	ug/kg
1,2-Dichloroethane	ND	6.3	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	ND	6.3	ug/kg
Carbon tetrachloride	ND	6.3	ug/kg
Bromodichloromethane	ND	6.3	ug/kg
1,2-Dichloropropane	ND	6.3	ug/kg
cis-1,3-Dichloropropene	ND	6.3	ug/kg
Trichloroethene	ND	6.3	ug/kg
Dibromochloromethane	ND	6.3	ug/kg
1,1,2-Trichloroethane	ND	6.3	ug/kg
Benzene	ND	6.3	ug/kg
trans-1,3-Dichloropropene	ND	6.3	ug/kg
Bromoform	ND	6.3	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	ND	6.3	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.3	ug/kg
Toluene	**1.8 J**	**6.3**	**ug/kg**
Chlorobenzene	ND	6.3	ug/kg
Ethylbenzene	ND	6.3	ug/kg
Styrene	ND	6.3	ug/kg
Xylenes (total)	ND	6.3	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(64 - 135)
Toluene-d8	96	(77 - 124)
4-Bromofluorobenzene	79	(70 - 147)

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7531R

GC/MS Volatiles

Lot-Sample #...: H8F260208-013 **Work Order #...:** CJDJQ102 **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB036 **Work Order #...:** CJH5E101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G020000-140

Prep Date.....: 07/02/98
Analysis Date..: 07/02/98 **Prep Batch #...:** 8183140
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Methylene chloride	**1.7 J**	**5.0**	**ug/kg**	**SW846 8260A**
Acetone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(64 - 135)
Toluene-d8	97	(70 - 130)
4-Bromofluorobenzene	77	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: PB036 **Work Order #...:** CJH5E101 **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB036 **Work Order #...:** CJDJM103-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-010 CJDJM104-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**102**	**(64 - 146)**			**SW846 8260A**
	104	**(64 - 146)**	**2.0**	**(0-30)**	**SW846 8260A**
Trichloroethene	**109**	**(41 - 151)**			**SW846 8260A**
	109	**(41 - 151)**	**0.45**	**(0-30)**	**SW846 8260A**
Benzene	**102**	**(70 - 130)**			**SW846 8260A**
	102	**(70 - 130)**	**0.80**	**(0-30)**	**SW846 8260A**
Toluene	**104**	**(69 - 132)**			**SW846 8260A**
	110	**(69 - 132)**	**5.4**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**102**	**(67 - 130)**			**SW846 8260A**
	105	**(67 - 130)**	**3.0**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(64 - 135)
	99	(64 - 135)
Toluene-d8	103	(70 - 130)
	108	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB036 **Work Order #...:** CJDJP103-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-012 CJDJP104-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1 **% Moisture.....:** 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**100**	**(64 - 146)**			**SW846 8260A**
	100	**(64 - 146)**	**0.69**	**(0-30)**	**SW846 8260A**
Trichloroethene	**115**	**(41 - 151)**			**SW846 8260A**
	114	**(41 - 151)**	**1.1**	**(0-30)**	**SW846 8260A**
Benzene	**100**	**(70 - 130)**			**SW846 8260A**
	100	**(70 - 130)**	**0.32**	**(0-30)**	**SW846 8260A**
Toluene	**97**	**(69 - 132)**			**SW846 8260A**
	97	**(69 - 132)**	**0.45**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**103**	**(67 - 130)**			**SW846 8260A**
	104	**(67 - 130)**	**0.93**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(64 - 135)
	94	(64 - 135)
Toluene-d8	99	(70 - 130)
	98	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: PB036 **Work Order #...:** CJH5E102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G020000-140
Prep Date.....: 07/02/98 **Analysis Date..:** 07/02/98
Prep Batch #...: 8183140
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**108**	**(67 - 137)**	**SW846 8260A**
Benzene	**105**	**(70 - 130)**	**SW846 8260A**
Trichloroethene	**120**	**(68 - 130)**	**SW846 8260A**
Toluene	**104**	**(70 - 130)**	**SW846 8260A**
Chlorobenzene	**110**	**(70 - 130)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(64 - 135)
Toluene-d8	100	(70 - 130)
4-Bromofluorobenzene	77	(70 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8750

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-009 **Work Order #...:** CJDJL103 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8181132
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	400	ug/kg
bis(2-Chloroethyl) ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	400	ug/kg
4-Methylphenol	ND	400	ug/kg
N-Nitrosodi-n-propylamine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichlorobenzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopentadiene	ND	1900	ug/kg
2,4,6-Trichlorophenol	ND	400	ug/kg
2,4,5-Trichlorophenol	ND	400	ug/kg
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenzofuran	ND	400	ug/kg

(Continued on next page)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8750

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-009 **Work Order #...:** CJDJL103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Carbazole	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
3,3'-Dichlorobenzidine[1]	ND	1900	ug/kg
Benzo(a)anthracene	ND	400	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo(b)fluoranthene	ND	400	ug/kg
Benzo(k)fluoranthene	ND	400	ug/kg
Benzo(a)pyrene	ND	400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg
Dibenz(a,h)anthracene	ND	400	ug/kg
Benzo(ghi)perylene	ND	400	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(25 - 121)
Phenol-d5	66	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
2-Fluorobiphenyl	72	(30 - 115)
2,4,6-Tribromophenol	88	(19 - 122)
Terphenyl-d14	70	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8780

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-010 **Work Order #...:** CJDJM105 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8181132
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	370	ug/kg
bis(2-Chloroethyl) ether	ND	370	ug/kg
2-Chlorophenol	ND	370	ug/kg
1,3-Dichlorobenzene	ND	370	ug/kg
1,4-Dichlorobenzene	ND	370	ug/kg
1,2-Dichlorobenzene	ND	370	ug/kg
2-Methylphenol	ND	370	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	370	ug/kg
4-Methylphenol	ND	370	ug/kg
N-Nitrosodi-n-propylamine	ND	370	ug/kg
Hexachloroethane	ND	370	ug/kg
Nitrobenzene	ND	370	ug/kg
Isophorone	ND	370	ug/kg
2-Nitrophenol	ND	370	ug/kg
2,4-Dimethylphenol	ND	370	ug/kg
bis(2-Chloroethoxy) methane	ND	370	ug/kg
2,4-Dichlorophenol	ND	370	ug/kg
1,2,4-Trichlorobenzene	ND	370	ug/kg
Naphthalene	ND	370	ug/kg
4-Chloroaniline	ND	370	ug/kg
Hexachlorobutadiene	ND	370	ug/kg
4-Chloro-3-methylphenol	ND	370	ug/kg
2-Methylnaphthalene	ND	370	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	370	ug/kg
2,4,5-Trichlorophenol	ND	370	ug/kg
2-Chloronaphthalene	ND	370	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	370	ug/kg
Acenaphthylene	ND	370	ug/kg
2,6-Dinitrotoluene	ND	370	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	370	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	370	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8780

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-010 **Work Order #...:** CJDJM105 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	370	ug/kg
Diethyl phthalate	ND	370	ug/kg
4-Chlorophenyl phenyl ether	ND	370	ug/kg
Fluorene	ND	370	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	370	ug/kg
4-Bromophenyl phenyl ether	ND	370	ug/kg
Hexachlorobenzene	ND	370	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	370	ug/kg
Anthracene	ND	370	ug/kg
Carbazole	ND	370	ug/kg
Di-n-butyl phthalate	ND	370	ug/kg
Fluoranthene	ND	370	ug/kg
Pyrene	ND	370	ug/kg
Butyl benzyl phthalate	ND	370	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	370	ug/kg
Chrysene	ND	370	ug/kg
bis(2-Ethylhexyl) phthalate	ND	370	ug/kg
Di-n-octyl phthalate	ND	370	ug/kg
Benzo(b)fluoranthene	ND	370	ug/kg
Benzo(k)fluoranthene	ND	370	ug/kg
Benzo(a)pyrene	ND	370	ug/kg
Indeno(1,2,3-cd)pyrene	ND	370	ug/kg
Dibenz(a,h)anthracene	ND	370	ug/kg
Benzo(ghi)perylene	ND	370	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(25 - 121)
Phenol-d5	62	(24 - 113)
Nitrobenzene-d5	66	(23 - 120)
2-Fluorobiphenyl	68	(30 - 115)
2,4,6-Tribromophenol	81	(19 - 122)
Terphenyl-d14	67	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8781

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-011 **Work Order #...:** CJDJN103 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8181132
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	380	ug/kg
bis(2-Chloroethyl) ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichlorobenzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg
2,4,5-Trichlorophenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1800	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	ND	380	ug/kg
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1800	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
4-Nitrophenol	ND	1800	ug/kg
Dibenzofuran	ND	380	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8781

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-011 **Work Order #...:** CJDJN103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Nitroaniline	ND	1800	ug/kg
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	ND	380	ug/kg
Anthracene	ND	380	ug/kg
Carbazole	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	ND	380	ug/kg
Pyrene	ND	380	ug/kg
Butyl benzyl phthalate	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
Benzo(a)anthracene	ND	380	ug/kg
Chrysene	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	ND	380	ug/kg
Benzo(k)fluoranthene	ND	380	ug/kg
Benzo(a)pyrene	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg
Dibenz(a,h)anthracene	ND	380	ug/kg
Benzo(ghi)perylene	ND	380	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(25 - 121)
Phenol-d5	68	(24 - 113)
Nitrobenzene-d5	68	(23 - 120)
2-Fluorobiphenyl	69	(30 - 115)
2,4,6-Tribromophenol	74	(19 - 122)
Terphenyl-d14	76	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7530R

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-012 **Work Order #...:** CJDJP105 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8181132
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	410	ug/kg
bis(2-Chloroethyl) ether	ND	410	ug/kg
2-Chlorophenol	ND	410	ug/kg
1,3-Dichlorobenzene	ND	410	ug/kg
1,4-Dichlorobenzene	ND	410	ug/kg
1,2-Dichlorobenzene	ND	410	ug/kg
2-Methylphenol	ND	410	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	410	ug/kg
4-Methylphenol	ND	410	ug/kg
N-Nitrosodi-n-propylamine	ND	410	ug/kg
Hexachloroethane	ND	410	ug/kg
Nitrobenzene	ND	410	ug/kg
Isophorone	ND	410	ug/kg
2-Nitrophenol	ND	410	ug/kg
2,4-Dimethylphenol	ND	410	ug/kg
bis(2-Chloroethoxy) methane	ND	410	ug/kg
2,4-Dichlorophenol	ND	410	ug/kg
1,2,4-Trichlorobenzene	ND	410	ug/kg
Naphthalene	ND	410	ug/kg
4-Chloroaniline	ND	410	ug/kg
Hexachlorobutadiene	ND	410	ug/kg
4-Chloro-3-methylphenol	ND	410	ug/kg
2-Methylnaphthalene	ND	410	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	410	ug/kg
2,4,5-Trichlorophenol	ND	410	ug/kg
2-Chloronaphthalene	ND	410	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	410	ug/kg
Acenaphthylene	ND	410	ug/kg
2,6-Dinitrotoluene	ND	410	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	410	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	410	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7530R

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-012 **Work Order #...:** CJDJP105 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	**56 J**	**410**	**ug/kg**
Diethyl phthalate	ND	410	ug/kg
4-Chlorophenyl phenyl ether	ND	410	ug/kg
Fluorene	ND	410	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	410	ug/kg
4-Bromophenyl phenyl ether	ND	410	ug/kg
Hexachlorobenzene	ND	410	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	410	ug/kg
Anthracene	ND	410	ug/kg
Carbazole	ND	410	ug/kg
Di-n-butyl phthalate	ND	410	ug/kg
Fluoranthene	ND	410	ug/kg
Pyrene	ND	410	ug/kg
Butyl benzyl phthalate	ND	410	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	410	ug/kg
Chrysene	ND	410	ug/kg
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg
Di-n-octyl phthalate	ND	410	ug/kg
Benzo(b)fluoranthene	ND	410	ug/kg
Benzo(k)fluoranthene	ND	410	ug/kg
Benzo(a)pyrene	ND	410	ug/kg
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg
Dibenz(a,h)anthracene	ND	410	ug/kg
Benzo(ghi)perylene	ND	410	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	51	(25 - 121)
Phenol-d5	55	(24 - 113)
Nitrobenzene-d5	51	(23 - 120)
2-Fluorobiphenyl	53	(30 - 115)
2,4,6-Tribromophenol	65	(19 - 122)
Terphenyl-d14	60	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7531R

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-013 **Work Order #...:** CJDJQ103 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/11/98
Prep Batch #...: 8181132
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8270B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	420	ug/kg
bis(2-Chloroethyl) ether	ND	420	ug/kg
2-Chlorophenol	ND	420	ug/kg
1,3-Dichlorobenzene	ND	420	ug/kg
1,4-Dichlorobenzene	ND	420	ug/kg
1,2-Dichlorobenzene	ND	420	ug/kg
2-Methylphenol	ND	420	ug/kg
2,2'-oxybis(1-Chloro-propane)	ND	420	ug/kg
4-Methylphenol	ND	420	ug/kg
N-Nitrosodi-n-propylamine	ND	420	ug/kg
Hexachloroethane	ND	420	ug/kg
Nitrobenzene	ND	420	ug/kg
Isophorone	ND	420	ug/kg
2-Nitrophenol	ND	420	ug/kg
2,4-Dimethylphenol	ND	420	ug/kg
bis(2-Chloroethoxy) methane	ND	420	ug/kg
2,4-Dichlorophenol	ND	420	ug/kg
1,2,4-Trichlorobenzene	ND	420	ug/kg
Naphthalene	ND	420	ug/kg
4-Chloroaniline	ND	420	ug/kg
Hexachlorobutadiene	ND	420	ug/kg
4-Chloro-3-methylphenol	ND	420	ug/kg
2-Methylnaphthalene	ND	420	ug/kg
Hexachlorocyclopentadiene	ND	2000	ug/kg
2,4,6-Trichlorophenol	ND	420	ug/kg
2,4,5-Trichlorophenol	ND	420	ug/kg
2-Chloronaphthalene	ND	420	ug/kg
2-Nitroaniline	ND	2000	ug/kg
Dimethyl phthalate	ND	420	ug/kg
Acenaphthylene	ND	420	ug/kg
2,6-Dinitrotoluene	ND	420	ug/kg
3-Nitroaniline	ND	2000	ug/kg
Acenaphthene	ND	420	ug/kg
2,4-Dinitrophenol	ND	2000	ug/kg
4-Nitrophenol	ND	2000	ug/kg
Dibenzofuran	ND	420	ug/kg

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7531R

GC/MS Semivolatiles

Lot-Sample #...: H8F260208-013 **Work Order #...:** CJDJQ103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-Dinitrotoluene	**83 J**	**420**	**ug/kg**
Diethyl phthalate	ND	420	ug/kg
4-Chlorophenyl phenyl ether	ND	420	ug/kg
Fluorene	ND	420	ug/kg
4-Nitroaniline	ND	2000	ug/kg
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg
N-Nitrosodiphenylamine	ND	420	ug/kg
4-Bromophenyl phenyl ether	ND	420	ug/kg
Hexachlorobenzene	ND	420	ug/kg
Pentachlorophenol	ND	2000	ug/kg
Phenanthrene	ND	420	ug/kg
Anthracene	ND	420	ug/kg
Carbazole	ND	420	ug/kg
Di-n-butyl phthalate	ND	420	ug/kg
Fluoranthene	ND	420	ug/kg
Pyrene	ND	420	ug/kg
Butyl benzyl phthalate	ND	420	ug/kg
3,3'-Dichlorobenzidine	ND	2000	ug/kg
Benzo(a)anthracene	ND	420	ug/kg
Chrysene	ND	420	ug/kg
bis(2-Ethylhexyl) phthalate	ND	420	ug/kg
Di-n-octyl phthalate	ND	420	ug/kg
Benzo(b)fluoranthene	ND	420	ug/kg
Benzo(k)fluoranthene	ND	420	ug/kg
Benzo(a)pyrene	ND	420	ug/kg
Indeno(1,2,3-cd)pyrene	ND	420	ug/kg
Dibenz(a,h)anthracene	ND	420	ug/kg
Benzo(ghi)perylene	ND	420	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	51	(25 - 121)
Phenol-d5	56	(24 - 113)
Nitrobenzene-d5	48	(23 - 120)
2-Fluorobiphenyl	49	(30 - 115)
2,4,6-Tribromophenol	58	(19 - 122)
Terphenyl-d14	52	(20 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJF2N101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F300000-132

Prep Date.....: 06/30/98
Analysis Date..: 07/15/98 **Prep Batch #...:** 8181132
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethyl) ether	ND	330	ug/kg	SW846 8270B
2-Chlorophenol	ND	330	ug/kg	SW846 8270B
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270B
2-Methylphenol	ND	330	ug/kg	SW846 8270B
2,2'-oxybis(1-Chloro-propane)	ND	330	ug/kg	SW846 8270B
4-Methylphenol	ND	330	ug/kg	SW846 8270B
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270B
Hexachloroethane	ND	330	ug/kg	SW846 8270B
Nitrobenzene	ND	330	ug/kg	SW846 8270B
Isophorone	ND	330	ug/kg	SW846 8270B
2-Nitrophenol	ND	330	ug/kg	SW846 8270B
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270B
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270B
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270B
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270B
Naphthalene	ND	330	ug/kg	SW846 8270B
4-Chloroaniline	ND	330	ug/kg	SW846 8270B
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270B
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270B
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270B
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270B
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270B
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270B
2-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Dimethyl phthalate	ND	330	ug/kg	SW846 8270B
Acenaphthylene	ND	330	ug/kg	SW846 8270B
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
3-Nitroaniline	ND	1600	ug/kg	SW846 8270B
Acenaphthene	ND	330	ug/kg	SW846 8270B
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270B
4-Nitrophenol	ND	1600	ug/kg	SW846 8270B
Dibenzofuran	ND	330	ug/kg	SW846 8270B
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270B
Diethyl phthalate	ND	330	ug/kg	SW846 8270B
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270B

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJF2N101 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	330	ug/kg	SW846 8270B
4-Nitroaniline	ND	1600	ug/kg	SW846 8270B
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270B
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270B
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270B
Hexachlorobenzene	ND	330	ug/kg	SW846 8270B
Pentachlorophenol	ND	1600	ug/kg	SW846 8270B
Phenanthrene	ND	330	ug/kg	SW846 8270B
Anthracene	ND	330	ug/kg	SW846 8270B
Carbazole	ND	330	ug/kg	SW846 8270B
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270B
Fluoranthene	ND	330	ug/kg	SW846 8270B
Pyrene	ND	330	ug/kg	SW846 8270B
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270B
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270B
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270B
Chrysene	ND	330	ug/kg	SW846 8270B
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270B
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270B
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270B
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270B
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270B
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270B
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(25 - 121)
Phenol-d5	67	(24 - 113)
Nitrobenzene-d5	72	(23 - 120)
2-Fluorobiphenyl	74	(30 - 115)
2,4,6-Tribromophenol	76	(19 - 122)
Terphenyl-d14	77	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJDJM106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-010 CJDJM107-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8181132
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**59**	**(23 - 115)**			**SW846 8270B**
	62	**(23 - 115)**	**4.0**	**(0-41)**	**SW846 8270B**
2-Chlorophenol	**61**	**(20 - 118)**			**SW846 8270B**
	64	**(20 - 118)**	**5.1**	**(0-42)**	**SW846 8270B**
1,4-Dichlorobenzene	**56**	**(16 - 116)**			**SW846 8270B**
	58	**(16 - 116)**	**4.4**	**(0-43)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**49**	**(12 - 126)**			**SW846 8270B**
	63	**(12 - 126)**	**25**	**(0-42)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**65**	**(19 - 124)**			**SW846 8270B**
	68	**(19 - 124)**	**5.4**	**(0-46)**	**SW846 8270B**
4-Chloro-3-methylphenol	**65**	**(28 - 119)**			**SW846 8270B**
	67	**(28 - 119)**	**3.0**	**(0-35)**	**SW846 8270B**
Acenaphthene	**62**	**(23 - 125)**			**SW846 8270B**
	66	**(23 - 125)**	**6.5**	**(0-40)**	**SW846 8270B**
4-Nitrophenol	**66**	**(15 - 130)**			**SW846 8270B**
	65	**(15 - 130)**	**1.8**	**(0-54)**	**SW846 8270B**
2,4-Dinitrotoluene	**63**	**(26 - 122)**			**SW846 8270B**
	66	**(26 - 122)**	**3.7**	**(0-32)**	**SW846 8270B**
Pentachlorophenol	**65**	**(10 - 134)**			**SW846 8270B**
	69	**(10 - 134)**	**5.4**	**(0-53)**	**SW846 8270B**
Pyrene	**69**	**(28 - 128)**			**SW846 8270B**
	72	**(28 - 128)**	**4.2**	**(0-42)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(25 - 121)
	62	(25 - 121)
Phenol-d5	63	(24 - 113)
	64	(24 - 113)
Nitrobenzene-d5	64	(23 - 120)
	66	(23 - 120)
2-Fluorobiphenyl	64	(30 - 115)
	66	(30 - 115)
2,4,6-Tribromophenol	70	(19 - 122)
	73	(19 - 122)
Terphenyl-d14	69	(20 - 138)
	70	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJDJP106-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-012 CJDJP107-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/11/98
Prep Batch #...: 8181132
Dilution Factor: 1 **% Moisture.....:** 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	62	(23 - 115)			SW846 8270B
	61	(23 - 115)	1.3	(0-41)	SW846 8270B
2-Chlorophenol	64	(20 - 118)			SW846 8270B
	61	(20 - 118)	3.8	(0-42)	SW846 8270B
1,4-Dichlorobenzene	58	(16 - 116)			SW846 8270B
	55	(16 - 116)	4.2	(0-43)	SW846 8270B
N-Nitrosodi-n-propylamine	60	(12 - 126)			SW846 8270B
	57	(12 - 126)	5.6	(0-42)	SW846 8270B
1,2,4-Trichlorobenzene	68	(19 - 124)			SW846 8270B
	65	(19 - 124)	4.5	(0-46)	SW846 8270B
4-Chloro-3-methylphenol	67	(28 - 119)			SW846 8270B
	66	(28 - 119)	1.8	(0-35)	SW846 8270B
Acenaphthene	65	(23 - 125)			SW846 8270B
	64	(23 - 125)	1.8	(0-40)	SW846 8270B
4-Nitrophenol	66	(15 - 130)			SW846 8270B
	66	(15 - 130)	0.0	(0-54)	SW846 8270B
2,4-Dinitrotoluene	66	(26 - 122)			SW846 8270B
	64	(26 - 122)	1.8	(0-32)	SW846 8270B
Pentachlorophenol	72	(10 - 134)			SW846 8270B
	67	(10 - 134)	6.3	(0-53)	SW846 8270B
Pyrene	73	(28 - 128)			SW846 8270B
	69	(28 - 128)	5.0	(0-42)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(25 - 121)
	60	(25 - 121)
Phenol-d5	66	(24 - 113)
	63	(24 - 113)
Nitrobenzene-d5	65	(23 - 120)
	64	(23 - 120)
2-Fluorobiphenyl	66	(30 - 115)
	65	(30 - 115)
2,4,6-Tribromophenol	75	(19 - 122)
	72	(19 - 122)
Terphenyl-d14	72	(20 - 138)
	71	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJF2N102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F300000-132
Prep Date.....: 06/30/98 **Analysis Date..:** 07/15/98
Prep Batch #...: 8181132
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**56**	**(32 - 115)**	**SW846 8270B**
2-Chlorophenol	**58**	**(30 - 118)**	**SW846 8270B**
1,4-Dichlorobenzene	**57**	**(25 - 116)**	**SW846 8270B**
N-Nitrosodi-n-propylamine	**57**	**(16 - 126)**	**SW846 8270B**
1,2,4-Trichlorobenzene	**74**	**(28 - 124)**	**SW846 8270B**
4-Chloro-3-methylphenol	**65**	**(34 - 116)**	**SW846 8270B**
Acenaphthene	**65**	**(34 - 117)**	**SW846 8270B**
4-Nitrophenol	**74**	**(23 - 125)**	**SW846 8270B**
2,4-Dinitrotoluene	**69**	**(28 - 122)**	**SW846 8270B**
Pentachlorophenol	**68**	**(17 - 117)**	**SW846 8270B**
Pyrene	**66**	**(39 - 124)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(25 - 121)
Phenol-d5	64	(24 - 113)
Nitrobenzene-d5	69	(23 - 120)
2-Fluorobiphenyl	72	(30 - 115)
2,4,6-Tribromophenol	64	(19 - 122)
Terphenyl-d14	76	(20 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8750

GC Semivolatiles

Lot-Sample #...:	H8F260208-009	Work Order #...:	CJDJL104	Matrix.....:	SOLID
Date Sampled...:	06/25/98	Date Received..:	06/26/98		
Prep Date.....:	06/30/98	Analysis Date..:	07/14/98		
Prep Batch #...:	8181113				
Dilution Factor:	1				
% Moisture.....:	18	Method.....:	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	ND	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	126	(40 - 134)
Decachlorobiphenyl	121	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8780

GC Semivolatiles

Lot-Sample #...: H8F260208-010 **Work Order #...:** CJDJM108 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8181113
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	37	ug/kg
Aroclor 1221	ND	37	ug/kg
Aroclor 1232	ND	37	ug/kg
Aroclor 1242	ND	37	ug/kg
Aroclor 1248	ND	37	ug/kg
Aroclor 1254	ND	37	ug/kg
Aroclor 1260	ND	37	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	122	(40 - 134)
Decachlorobiphenyl	116	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8781

GC Semivolatiles

Lot-Sample #...: H8F260208-011 Work Order #...: CJDJN104 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/26/98
Prep Date.....: 06/30/98 Analysis Date..: 07/14/98
Prep Batch #...: 8181113
Dilution Factor: 1
% Moisture.....: 13 Method.....: SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	ND	38	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	184 *	(40 - 134)
Decachlorobiphenyl	185 *	(38 - 174)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7530R

GC Semivolatiles

Lot-Sample #...: H8F260208-012 Work Order #...: CJDJP108 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/26/98
Prep Date.....: 06/30/98 Analysis Date..: 07/14/98
Prep Batch #...: 8181113
Dilution Factor: 1
% Moisture.....: 20 Method.....: SW846 8081

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	ND	41	ug/kg
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	ND	41	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	131	(40 - 134)
Decachlorobiphenyl	117	(38 - 174)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7531R

GC Semivolatiles

Lot-Sample #...:	H8F260208-013	Work Order #...:	CJDJQ104	Matrix.....:	SOLID
Date Sampled...:	06/25/98	Date Received..:	06/26/98		
Prep Date.....:	06/30/98	Analysis Date..:	07/14/98		
Prep Batch #...:	8181113				
Dilution Factor:	1				
% Moisture.....:	21	Method.....:	SW846 8081		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	42	ug/kg
Aroclor 1221	ND	42	ug/kg
Aroclor 1232	ND	42	ug/kg
Aroclor 1242	ND	42	ug/kg
Aroclor 1248	ND	42	ug/kg
Aroclor 1254	ND	42	ug/kg
Aroclor 1260	ND	42	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	195 *	(40 - 134)
Decachlorobiphenyl	174	(38 - 174)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJF1M101 **Matrix.....:** SOLID
MB Lot-Sample #: H8F300000-113

Prep Date.....: 06/30/98
Analysis Date..: 07/14/98 **Prep Batch #...:** 8181113
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8081
Aroclor 1221	ND	33	ug/kg	SW846 8081
Aroclor 1232	ND	33	ug/kg	SW846 8081
Aroclor 1242	ND	33	ug/kg	SW846 8081
Aroclor 1248	ND	33	ug/kg	SW846 8081
Aroclor 1254	ND	33	ug/kg	SW846 8081
Aroclor 1260	ND	33	ug/kg	SW846 8081

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	114	(40 - 134)
Decachlorobiphenyl	110	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJDJM109-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-010 CJDJM10A-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8181113
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**138**	**(52 - 144)**			**SW846 8081**
	144	**(52 - 144)**	**3.8**	**(0-25)**	**SW846 8081**
Aroclor 1260	**135**	**(45 - 143)**			**SW846 8081**
	138	**(45 - 143)**	**2.4**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115	(40 - 134)
	123	(40 - 134)
Decachlorobiphenyl	122	(38 - 174)
	129	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJDJP109-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-012 CJDJP10A-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 06/30/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8181113
Dilution Factor: 1 **% Moisture.....:** 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**125**	**(52 - 144)**			**SW846 8081**
	126	**(52 - 144)**	**0.65**	**(0-25)**	**SW846 8081**
Aroclor 1260	**117**	**(45 - 143)**			**SW846 8081**
	118	**(45 - 143)**	**1.4**	**(0-25)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	127	(40 - 134)
	117	(40 - 134)
Decachlorobiphenyl	112	(38 - 174)
	113	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: PB036 **Work Order #...:** CJF1M102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8F300000-113
Prep Date.....: 06/30/98 **Analysis Date..:** 07/14/98
Prep Batch #...: 8181113
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**118**	**(52 - 144)**	**SW846 8081**
Aroclor 1260	**108**	**(45 - 143)**	**SW846 8081**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	110	(40 - 134)
Decachlorobiphenyl	108	(38 - 174)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8740

HPLC

Lot-Sample #...: H8F260208-001 Work Order #...: CJDJC102 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/26/98
Prep Date.....: 07/08/98 Analysis Date..: 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1
% Moisture.....: 15 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	119	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8760

HPLC

Lot-Sample #...:	H8F260208-002	**Work Order #...:**	CJDJD102	**Matrix.....:**	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	07/08/98	**Analysis Date..:**	07/10/98		
Prep Batch #...:	8187153				
Dilution Factor:	1				
% Moisture.....:	16	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	121	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8790

HPLC

Lot-Sample #...: H8F260208-003 **Work Order #...:** CJDJE102 Matrix.....: SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	106	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8800

HPLC

Lot-Sample #...: H8F260208-004 **Work Order #...:** CJDJF102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1
% Moisture.....: 26 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**0.98**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7360R

HPLC

Lot-Sample #...: H8F260208-005 **Work Order #...:** CJDJG102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	102	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7380R

HPLC

Lot-Sample #...:	H8F260208-006	**Work Order #...:**	CJDJH102	**Matrix.....:**	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	07/08/98	**Analysis Date..:**	07/10/98		
Prep Batch #...:	8187153				
Dilution Factor:	1				
% Moisture.....:	20	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	109	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7520R

HPLC

Lot-Sample #...: H8F260208-007 **Work Order #...:** CJDJJ102 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7540R

HPLC

Lot-Sample #...:	H8F260208-008	**Work Order #...:**	CJDJK102	Matrix.....:	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	07/08/98	**Analysis Date..:**	07/10/98		
Prep Batch #...:	8187153				
Dilution Factor:	1				
% Moisture.....:	23	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	**1.3**	**0.25**	**mg/kg**
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8750

HPLC

Lot-Sample #...: H8F260208-009 **Work Order #...:** CJDJL105 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	101	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8780

HPLC

Lot-Sample #...: H8F260208-010 **Work Order #...:** CJDJM10C **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	99	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 8781

HPLC

Lot-Sample #...:	H8F260208-011	**Work Order #...:**	CJDJN105	Matrix.....:	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	07/08/98	**Analysis Date..:**	07/10/98		
Prep Batch #...:	8187153				
Dilution Factor:	1				
% Moisture.....:	13	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	104	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7530R

HPLC

Lot-Sample #...:	H8F260208-012	**Work Order #...:**	CJDJP10C	**Matrix.....:**	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	07/08/98	**Analysis Date..:**	07/10/98		
Prep Batch #...:	8187153				
Dilution Factor:	1				
% Moisture.....:	20	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	103	(72 - 129)

IT CORPORATION - KNOXVILLE

Client Sample ID: 7531R

HPLC

Lot-Sample #...:	H8F260208-013	**Work Order #...:**	CJDJQ105	**Matrix.....:**	SOLID
Date Sampled...:	06/25/98	**Date Received..:**	06/26/98		
Prep Date.....:	07/08/98	**Analysis Date..:**	07/10/98		
Prep Batch #...:	8187153				
Dilution Factor:	1				
% Moisture.....:	21	**Method.....:**	SW846 8330		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)

METHOD BLANK REPORT

HPLC

Client Lot #...: PB036 **Work Order #...:** CJJPK101 **Matrix.....:** SOLID
MB Lot-Sample #: H8G060000-153

Prep Date.....: 07/08/98
Analysis Date..: 07/10/98 **Prep Batch #...:** 8187153
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	108	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8F260208 **Work Order #...:** CJDJM10D-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-010 CJDJM10E-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	96	(76 - 120)			SW846 8330
	96	(76 - 120)	0.12	(0-15)	SW846 8330
4-Nitrotoluene	97	(76 - 122)			SW846 8330
	99	(76 - 122)	2.5	(0-25)	SW846 8330
HMX	88	(48 - 125)			SW846 8330
	88	(48 - 125)	0.42	(0-15)	SW846 8330
RDX	95	(61 - 127)			SW846 8330
	96	(61 - 127)	0.95	(0-15)	SW846 8330
1,3,5-Trinitrobenzene	103	(74 - 126)			SW846 8330
	105	(74 - 126)	1.3	(0-15)	SW846 8330
1,3-Dinitrobenzene	98	(71 - 126)			SW846 8330
	99	(71 - 126)	0.55	(0-15)	SW846 8330
Tetryl	86	(32 - 143)			SW846 8330
	86	(32 - 143)	0.53	(0-26)	SW846 8330
Nitrobenzene	97	(76 - 122)			SW846 8330
	98	(76 - 122)	0.37	(0-15)	SW846 8330
2,4,6-Trinitrotoluene	89	(69 - 132)			SW846 8330
	89	(69 - 132)	0.67	(0-15)	SW846 8330
4-Amino-2,6-dinitrotoluen	97	(67 - 127)			SW846 8330
	99	(67 - 127)	1.7	(0-15)	SW846 8330
2,6-Dinitrotoluene	90	(75 - 122)			SW846 8330
	90	(75 - 122)	0.40	(0-15)	SW846 8330
2,4-Dinitrotoluene	96	(75 - 124)			SW846 8330
	96	(75 - 124)	0.92	(0-15)	SW846 8330
2-Nitrotoluene	96	(77 - 125)			SW846 8330
	97	(77 - 125)	1.4	(0-15)	SW846 8330
3-Nitrotoluene	99	(76 - 121)			SW846 8330
	99	(76 - 121)	0.49	(0-15)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	99	(72 - 129)
	100	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8F260208 **Work Order #...:** CJDJP10D-MS **Matrix.....:** SOLID
MS Lot-Sample #: H8F260208-012 CJDJP10E-MSD
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1 **% Moisture.....:** 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	100	(76 - 120)			SW846 8330
	102	(76 - 120)	1.9	(0-15)	SW846 8330
4-Nitrotoluene	96	(76 - 122)			SW846 8330
	99	(76 - 122)	2.9	(0-25)	SW846 8330
HMX	88	(48 - 125)			SW846 8330
	89	(48 - 125)	1.5	(0-15)	SW846 8330
RDX	96	(61 - 127)			SW846 8330
	98	(61 - 127)	2.7	(0-15)	SW846 8330
1,3,5-Trinitrobenzene	104	(74 - 126)			SW846 8330
	107	(74 - 126)	2.4	(0-15)	SW846 8330
1,3-Dinitrobenzene	101	(71 - 126)			SW846 8330
	104	(71 - 126)	2.5	(0-15)	SW846 8330
Tetryl	91	(32 - 143)			SW846 8330
	92	(32 - 143)	1.6	(0-26)	SW846 8330
Nitrobenzene	100	(76 - 122)			SW846 8330
	102	(76 - 122)	1.7	(0-15)	SW846 8330
2,4,6-Trinitrotoluene	94	(69 - 132)			SW846 8330
	96	(69 - 132)	2.1	(0-15)	SW846 8330
4-Amino-2,6-dinitrotoluen	104	(67 - 127)			SW846 8330
	106	(67 - 127)	2.6	(0-15)	SW846 8330
2,6-Dinitrotoluene	94	(75 - 122)			SW846 8330
	97	(75 - 122)	2.4	(0-15)	SW846 8330
2,4-Dinitrotoluene	96	(75 - 124)			SW846 8330
	99	(75 - 124)	3.1	(0-15)	SW846 8330
2-Nitrotoluene	101	(77 - 125)			SW846 8330
	103	(77 - 125)	2.2	(0-15)	SW846 8330
3-Nitrotoluene	102	(76 - 121)			SW846 8330
	104	(76 - 121)	2.3	(0-15)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	100	(72 - 129)
	103	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: PB036 **Work Order #...:** CJJPK102 **Matrix.....:** SOLID
LCS Lot-Sample#: H8G060000-153
Prep Date.....: 07/08/98 **Analysis Date..:** 07/10/98
Prep Batch #...: 8187153
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**86**	**(65 - 117)**	**SW846 8330**
RDX	**102**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**104**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**100**	**(75 - 123)**	**SW846 8330**
Tetryl	**93**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**98**	**(76 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**49 a**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**108**	**(75 - 127)**	**SW846 8330**
2,6-Dinitrotoluene	**91**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**96**	**(75 - 124)**	**SW846 8330**
2-Nitrotoluene	**97**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**98**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**99**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**97**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	103	(72 - 1[illegible])

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Sample Data Summary

IT CORPORATION - KNOXVILLE

Client Sample ID: 8740

TOTAL Metals

Lot-Sample #...: H8F260208-001 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/14/98	CJDJC10T
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**11200**	**23.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJC103**
		Dilution Factor: 1				
Arsenic	**5.1**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJC10N**
		Dilution Factor: 1				
Lead	**10.6**	**0.35**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJC10P**
		Dilution Factor: 1				
Antimony	ND	7.0	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC104
		Dilution Factor: 1				
Barium	**61.9**	**23.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJC105**
		Dilution Factor: 1				
Selenium	**0.65**	**0.59**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJC10Q**
		Dilution Factor: 1				
Beryllium	ND	0.59	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC106
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJDJC10R
		Dilution Factor: 1				
Cadmium	**ND**	0.59	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC107
		Dilution Factor: 1				
Calcium	**1460**	**585**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJC108**
		Dilution Factor: 1				
Chromium	**14.8**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJC109**
		Dilution Factor: 1				
Cobalt	**11.5**	**5.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJC10A**
		Dilution Factor: 1				
Copper	**15.4**	**2.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJC10C**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8740

TOTAL Metals

Lot-Sample #...: H8F260208-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	19800	11.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10D
		Dilution Factor: 1				
Magnesium	2500	585	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10E
		Dilution Factor: 1				
Manganese	207	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10F
		Dilution Factor: 1				
Nickel	20.5	4.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10G
		Dilution Factor: 1				
Potassium	898	585	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10H
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10J
		Dilution Factor: 1				
Sodium	ND	585	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10K
		Dilution Factor: 1				
Vanadium	19.2	5.9	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10L
		Dilution Factor: 1				
Zinc	65.4	2.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJC10M
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8760

TOTAL Metals

Lot-Sample #...: H8F260208-002 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.039	mg/kg	SW846 7471A	07/14/98	CJDJD10T
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**12500**	**23.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJD103**
		Dilution Factor: 1				
Arsenic	**10.0**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJD10N**
		Dilution Factor: 1				
Lead	**8.7**	**0.36**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJD10P**
		Dilution Factor: 1				
Antimony	ND	7.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD104
		Dilution Factor: 1				
Barium	**74.8**	**23.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJD105**
		Dilution Factor: 1				
Selenium	ND	0.60	mg/kg	SW846 6010A	07/17-07/20/98	CJDJD10Q
		Dilution Factor: 1				
Beryllium	**0.74**	**0.60**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJD106**
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJDJD10R
		Dilution Factor: 1				
Cadmium	ND	0.60	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD107
		Dilution Factor: 1				
Calcium	**2460**	**597**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJD108**
		Dilution Factor: 1				
Chromium	**19.6**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJD109**
		Dilution Factor: 1				
Cobalt	**13.8**	**6.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJD10A**
		Dilution Factor: 1				
Copper	**21.7**	**3.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJD10C**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8760

TOTAL Metals

Lot-Sample #...: H8F260208-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	26600	11.9	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10D
		Dilution Factor: 1				
Magnesium	2920	597	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10E
		Dilution Factor: 1				
Manganese	362	1.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10F
		Dilution Factor: 1				
Nickel	31.1	4.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10G
		Dilution Factor: 1				
Potassium	1580	597	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10H
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10J
		Dilution Factor: 1				
Sodium	952	597	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10K
		Dilution Factor: 1				
Vanadium	27.5	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10L
		Dilution Factor: 1				
Zinc	74.3	2.4	mg/kg	SW846 6010A	07/17-07/18/98	CJDJD10M
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8790

TOTAL Metals

Lot-Sample #...: H8F260208-003 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/26/98
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.038	mg/kg	SW846 7471A	07/14/98	CJDJE10T
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**8670**	**22.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE103**
		Dilution Factor: 1				
Arsenic	**4.1**	**1.1**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJE10N**
		Dilution Factor: 1				
Lead	**7.6**	**0.34**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJE10P**
		Dilution Factor: 1				
Antimony	ND	6.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJE104
		Dilution Factor: 1				
Barium	**58.8**	**22.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE105**
		Dilution Factor: 1				
Selenium	ND	0.57	mg/kg	SW846 6010A	07/17-07/20/98	CJDJE10Q
		Dilution Factor: 1				
Beryllium	ND	0.57	mg/kg	SW846 6010A	07/17-07/18/98	CJDJE106
		Dilution Factor: 1				
Thallium	ND	1.1	mg/kg	SW846 6010A	07/17-07/20/98	CJDJE10R
		Dilution Factor: 1				
Cadmium	ND	0.57	mg/kg	SW846 6010A	07/17-07/18/98	CJDJE107
		Dilution Factor: 1				
Calcium	**4890**	**569**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE108**
		Dilution Factor: 1				
Chromium	**13.0**	**1.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE109**
		Dilution Factor: 1				
Cobalt	**8.1**	**5.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10A**
		Dilution Factor: 1				
Copper	**14.0**	**2.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10C**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8790

TOTAL Metals

Lot-Sample #...: H8F260208-003 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**15400**	**11.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10D**
		Dilution Factor: 1				
Magnesium	**2860**	**569**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10E**
		Dilution Factor: 1				
Manganese	**261**	**1.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10F**
		Dilution Factor: 1				
Nickel	**20.4**	**4.6**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10G**
		Dilution Factor: 1				
Potassium	**1080**	**569**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10H**
		Dilution Factor: 1				
Silver	ND	1.1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJE10J
		Dilution Factor: 1				
Sodium	ND	569	mg/kg	SW846 6010A	07/17-07/18/98	CJDJE10K
		Dilution Factor: 1				
Vanadium	**17.8**	**5.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10L**
		Dilution Factor: 1				
Zinc	**55.2**	**2.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJE10M**
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8800

TOTAL Metals

Lot-Sample #...: H8F260208-004 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.045	mg/kg	SW846 7471A	07/14/98	CJDJF10T
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**21000**	**27.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJF103**
		Dilution Factor: 1				
Arsenic	**4.9**	**1.4**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJF10N**
		Dilution Factor: 1				
Lead	**11.0**	**0.41**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJF10P**
		Dilution Factor: 1				
Antimony	ND	8.1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF104
		Dilution Factor: 1				
Barium	**92.7**	**27.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJF105**
		Dilution Factor: 1				
Selenium	ND	0.68	mg/kg	SW846 6010A	07/17-07/20/98	CJDJF10Q
		Dilution Factor: 1				
Beryllium	**1.0**	**0.68**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJF106**
		Dilution Factor: 1				
Thallium	ND	1.4	mg/kg	SW846 6010A	07/17-07/20/98	CJDJF10R
		Dilution Factor: 1				
Cadmium	ND	0.68	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF107
		Dilution Factor: 1				
Calcium	**39100**	**678**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJF108**
		Dilution Factor: 1				
Chromium	**28.6**	**1.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJF109**
		Dilution Factor: 1				
Cobalt	**11.5**	**6.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJF10A**
		Dilution Factor: 1				
Copper	**25.2**	**3.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJF10C**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8800

TOTAL Metals

Lot-Sample #...: H8F260208-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	26000	13.6 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10D
Magnesium	10300	678 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10E
Manganese	374	2.0 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10F
Nickel	35.9	5.4 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10G
Potassium	5630	678 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10H
Silver	ND	1.4 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10J
Sodium	ND	678 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10K
Vanadium	37.2	6.8 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10L
Zinc	64.9	2.7 Dilution Factor: 1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJF10M

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7360R

TOTAL Metals

Lot-Sample #...: H8F260208-005 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.037	mg/kg	SW846 7471A	07/14/98	CJDJG10T
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**6820**	**22.6**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG103**
		Dilution Factor: 1				
Arsenic	**2.9**	**1.1**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJG10N**
		Dilution Factor: 1				
Lead	**5.5**	**0.34**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJG10P**
		Dilution Factor: 1				
Antimony	ND	6.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJG104
		Dilution Factor: 1				
Barium	**27.6**	**22.6**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG105**
		Dilution Factor: 1				
Selenium	ND	0.57	mg/kg	SW846 6010A	07/17-07/20/98	CJDJG10Q
		Dilution Factor: 1				
Beryllium	ND	0.57	mg/kg	SW846 6010A	07/17-07/18/98	CJDJG106
		Dilution Factor: 1				
Thallium	ND	1.1	mg/kg	SW846 6010A	07/17-07/20/98	CJDJG10R
		Dilution Factor: 1				
Cadmium	ND	0.57	mg/kg	SW846 6010A	07/17-07/18/98	CJDJG107
		Dilution Factor: 1				
Calcium	**1490**	**566**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG108**
		Dilution Factor: 1				
Chromium	**9.3**	**1.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG109**
		Dilution Factor: 1				
Cobalt	ND	5.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJG10A
		Dilution Factor: 1				
Copper	**4.9**	**2.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG10C**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7360R

TOTAL Metals

Lot-Sample #...: H8F260208-005 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**9170**	**11.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG10D**
		Dilution Factor: 1				
Magnesium	**1010**	**566**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG10E**
		Dilution Factor: 1				
Manganese	**127**	**1.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG10F**
		Dilution Factor: 1				
Nickel	**7.4**	**4.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG10G**
		Dilution Factor: 1				
Potassium	ND	566	mg/kg	SW846 6010A	07/17-07/18/98	CJDJG10H
		Dilution Factor: 1				
Silver	ND	1.1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJG10J
		Dilution Factor: 1				
Sodium	ND	566	mg/kg	SW846 6010A	07/17-07/18/98	CJDJG10K
		Dilution Factor: 1				
Vanadium	**16.3**	**5.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG10L**
		Dilution Factor: 1				
Zinc	**24.9**	**2.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJG10M**
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7380R

TOTAL Metals

Lot-Sample #...: H8F260208-006 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.041	mg/kg	SW846 7471A	07/14/98	CJDJH10T
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**9040**	**25.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH103**
		Dilution Factor: 1				
Arsenic	**17.6**	**1.3**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJH10N**
		Dilution Factor: 1				
Lead	**8.0**	**0.38**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJH10P**
		Dilution Factor: 1				
Antimony	ND	7.5	mg/kg	SW846 6010A	07/17-07/18/98	CJDJH104
		Dilution Factor: 1				
Barium	**115**	**25.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH105**
		Dilution Factor: 1				
Selenium	ND	0.63	mg/kg	SW846 6010A	07/17-07/20/98	CJDJH10Q
		Dilution Factor: 1				
Beryllium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJDJH106
		Dilution Factor: 1				
Thallium	ND	1.3	mg/kg	SW846 6010A	07/17-07/20/98	CJDJH10R
		Dilution Factor: 1				
Cadmium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJDJH107
		Dilution Factor: 1				
Calcium	**57800**	**628**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH108**
		Dilution Factor: 1				
Chromium	**14.4**	**1.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH109**
		Dilution Factor: 1				
Cobalt	**10.2**	**6.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10A**
		Dilution Factor: 1				
Copper	**19.7**	**3.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10C**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7380R

TOTAL Metals

Lot-Sample #...: H8F260208-006 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**22700**	**12.6**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10D**
		Dilution Factor: 1				
Magnesium	**17100**	**628**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10E**
		Dilution Factor: 1				
Manganese	**731**	**1.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10F**
		Dilution Factor: 1				
Nickel	**23.8**	**5.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10G**
		Dilution Factor: 1				
Potassium	**2190**	**628**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10H**
		Dilution Factor: 1				
Silver	ND	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJH10J
		Dilution Factor: 1				
Sodium	ND	628	mg/kg	SW846 6010A	07/17-07/18/98	CJDJH10K
		Dilution Factor: 1				
Vanadium	**25.4**	**6.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10L**
		Dilution Factor: 1				
Zinc	**52.1**	**2.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJH10M**
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7520R

TOTAL Metals

Lot-Sample #...: H8F260208-007 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.037	mg/kg	SW846 7471A	07/14/98	CJDJJ10T
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**7220**	**22.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ103**
		Dilution Factor: 1				
Arsenic	**2.4**	**1.1**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJJ10N**
		Dilution Factor: 1				
Lead	**5.1**	**0.34**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJJ10P**
		Dilution Factor: 1				
Antimony	ND	6.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJJ104
		Dilution Factor: 1				
Barium	**24.3**	**22.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ105**
		Dilution Factor: 1				
Selenium	ND	0.56	mg/kg	SW846 6010A	07/17-07/20/98	CJDJJ10Q
		Dilution Factor: 1				
Beryllium	ND	0.56	mg/kg	SW846 6010A	07/17-07/18/98	CJDJJ106
		Dilution Factor: 1				
Thallium	ND	1.1	mg/kg	SW846 6010A	07/17-07/20/98	CJDJJ10R
		Dilution Factor: 1				
Cadmium	ND	0.56	mg/kg	SW846 6010A	07/17-07/18/98	CJDJJ107
		Dilution Factor: 1				
Calcium	**1750**	**563**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ108**
		Dilution Factor: 1				
Chromium	**8.8**	**1.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ109**
		Dilution Factor: 1				
Cobalt	ND	5.6	mg/kg	SW846 6010A	07/17-07/18/98	CJDJJ10A
		Dilution Factor: 1				
Copper	**4.9**	**2.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ10C**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7520R

TOTAL Metals

Lot-Sample #...: H8F260208-007 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**8430**	**11.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ10D**
		Dilution Factor: 1				
Magnesium	**1110**	**563**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ10E**
		Dilution Factor: 1				
Manganese	**102**	**1.7**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ10F**
		Dilution Factor: 1				
Nickel	**6.3**	**4.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ10G**
		Dilution Factor: 1				
Potassium	ND	563	mg/kg	SW846 6010A	07/17-07/18/98	CJDJJ10H
		Dilution Factor: 1				
Silver	ND	1.1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJJ10J
		Dilution Factor: 1				
Sodium	ND	563	mg/kg	SW846 6010A	07/17-07/18/98	CJDJJ10K
		Dilution Factor: 1				
Vanadium	**15.8**	**5.6**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ10L**
		Dilution Factor: 1				
Zinc	**22.5**	**2.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJJ10M**
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7540R

TOTAL Metals

Lot-Sample #...: H8F260208-008 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 23

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.043	mg/kg	SW846 7471A	07/14/98	CJDJK10T
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**4630**	**26.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK103**
		Dilution Factor: 1				
Arsenic	**6.3**	**1.3**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJK10N**
		Dilution Factor: 1				
Lead	**6.3**	**0.39**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJK10P**
		Dilution Factor: 1				
Antimony	ND	7.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJK104
		Dilution Factor: 1				
Barium	**26.5**	**26.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK105**
		Dilution Factor: 1				
Selenium	**0.87**	**0.65**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJK10Q**
		Dilution Factor: 1				
Beryllium	ND	0.65	mg/kg	SW846 6010A	07/17-07/18/98	CJDJK106
		Dilution Factor: 1				
Thallium	ND	1.3	mg/kg	SW846 6010A	07/17-07/20/98	CJDJK10R
		Dilution Factor: 1				
Cadmium	ND	0.65	mg/kg	SW846 6010A	07/17-07/18/98	CJDJK107
		Dilution Factor: 1				
Calcium	**58500**	**649**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK108**
		Dilution Factor: 1				
Chromium	**8.7**	**1.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK109**
		Dilution Factor: 1				
Cobalt	ND	6.5	mg/kg	SW846 6010A	07/17-07/18/98	CJDJK10A
		Dilution Factor: 1				
Copper	**15.1**	**3.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK10C**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7540R

TOTAL Metals

Lot-Sample #...: H8F260208-008 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**10600**	**13.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK10D**
		Dilution Factor: 1				
Magnesium	**16900**	**649**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK10E**
		Dilution Factor: 1				
Manganese	**273**	**1.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK10F**
		Dilution Factor: 1				
Nickel	**15.5**	**5.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK10G**
		Dilution Factor: 1				
Potassium	**1200**	**649**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK10H**
		Dilution Factor: 1				
Silver	ND	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJK10J
		Dilution Factor: 1				
Sodium	ND	649	mg/kg	SW846 6010A	07/17-07/18/98	CJDJK10K
		Dilution Factor: 1				
Vanadium	**17.5**	**6.5**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK10L**
		Dilution Factor: 1				
Zinc	**35.5**	**2.6**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJK10M**
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8750

TOTAL Metals

Lot-Sample #...: H8F260208-009 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/26/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.040	mg/kg	SW846 7471A	07/14/98	CJDJL10W
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	9420	24.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL106
		Dilution Factor: 1				
Arsenic	11.6	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJDJL10R
		Dilution Factor: 1				
Lead	9.0	0.36	mg/kg	SW846 6010A	07/17-07/20/98	CJDJL10T
		Dilution Factor: 1				
Antimony	ND	7.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL107
		Dilution Factor: 1				
Barium	67.7	24.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL108
		Dilution Factor: 1				
Selenium	ND	0.61	mg/kg	SW846 6010A	07/17-07/20/98	CJDJL10U
		Dilution Factor: 1				
Beryllium	ND	0.61	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL109
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJDJL10V
		Dilution Factor: 1				
Cadmium	ND	0.61	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL10A
		Dilution Factor: 1				
Calcium	2240	608	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL10C
		Dilution Factor: 1				
Chromium	15.5	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL10D
		Dilution Factor: 1				
Cobalt	15.5	6.1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL10E
		Dilution Factor: 1				
Copper	19.2	3.0	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL10F
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8750

TOTAL Metals

Lot-Sample #...: H8F260208-009 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**26100**	**12.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJL10G**
		Dilution Factor: 1				
Magnesium	**2530**	**608**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJL10H**
		Dilution Factor: 1				
Manganese	**326**	**1.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJL10J**
		Dilution Factor: 1				
Nickel	**31.6**	**4.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJL10K**
		Dilution Factor: 1				
Potassium	**1030**	**608**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJL10L**
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJL10M
		Dilution Factor: 1				
Sodium	**858**	**608**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJL10N**
		Dilution Factor: 1				
Vanadium	**22.1**	**6.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJL10P**
		Dilution Factor: 1				
Zinc	**66.1**	**2.4**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJL10Q**
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8780

TOTAL Metals

Lot-Sample #...: H8F260208-010 Matrix.....: SOLID
Date Sampled...: 06/25/98 Date Received..: 06/26/98
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.037	mg/kg	SW846 7471A	07/14/98	CJDJM12M
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	10700	22.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM10F
		Dilution Factor: 1				
Arsenic	5.3	1.1	mg/kg	SW846 6010A	07/17-07/20/98	CJDJM128
		Dilution Factor: 1				
Lead	9.6	0.34	mg/kg	SW846 6010A	07/17-07/20/98	CJDJM12C
		Dilution Factor: 1				
Antimony	ND	6.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM10J
		Dilution Factor: 1				
Barium	61.9	22.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM10M
		Dilution Factor: 1				
Selenium	ND	0.57	mg/kg	SW846 6010A	07/17-07/20/98	CJDJM12F
		Dilution Factor: 1				
Beryllium	0.59	0.57	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM10Q
		Dilution Factor: 1				
Thallium	ND	1.1	mg/kg	SW846 6010A	07/17-07/20/98	CJDJM12J
		Dilution Factor: 1				
Cadmium	ND	0.57	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM10U
		Dilution Factor: 1				
Calcium	7330	567	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM10X
		Dilution Factor: 1				
Chromium	15.3	1.1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM112
		Dilution Factor: 1				
Cobalt	11.1	5.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM115
		Dilution Factor: 1				
Copper	17.3	2.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM118
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8780

TOTAL Metals

Lot-Sample #...: H8F260208-010 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18400	11.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM11C
		Dilution Factor: 1				
Magnesium	4680	567	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM11F
		Dilution Factor: 1				
Manganese	453	1.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM11J
		Dilution Factor: 1				
Nickel	23.5	4.5	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM11M
		Dilution Factor: 1				
Potassium	1270	567	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM11Q
		Dilution Factor: 1				
Silver	ND	1.1	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM11U
		Dilution Factor: 1				
Sodium	ND	567	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM11X
		Dilution Factor: 1				
Vanadium	23.0	5.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM122
		Dilution Factor: 1				
Zinc	60.3	2.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJM125
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 8781

TOTAL Metals

Lot-Sample #...: H8F260208-011 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.038	mg/kg	SW846 7471A	07/14/98	CJDJN10W
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**9480**	**23.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJN106**
		Dilution Factor: 1				
Arsenic	**5.5**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJN10R**
		Dilution Factor: 1				
Lead	**11.9**	**0.35**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJN10T**
		Dilution Factor: 1				
Antimony	ND	6.9	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN107
		Dilution Factor: 1				
Barium	**60.3**	**23.0**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJN108**
		Dilution Factor: 1				
Selenium	ND	0.58	mg/kg	SW846 6010A	07/17-07/20/98	CJDJN10U
		Dilution Factor: 1				
Beryllium	**0.61**	**0.58**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJN109**
		Dilution Factor: 1				
Thallium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJDJN10V
		Dilution Factor: 1				
Cadmium	ND	0.58	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10A
		Dilution Factor: 1				
Calcium	**11400**	**576**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJN10C**
		Dilution Factor: 1				
Chromium	**14.3**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJN10D**
		Dilution Factor: 1				
Cobalt	**10.7**	**5.8**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJN10E**
		Dilution Factor: 1				
Copper	**18.0**	**2.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJN10F**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 8781

TOTAL Metals

Lot-Sample #...: H8F260208-011 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18400	11.5	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10G
		Dilution Factor: 1				
Magnesium	5000	576	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10H
		Dilution Factor: 1				
Manganese	350	1.7	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10J
		Dilution Factor: 1				
Nickel	22.7	4.6	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10K
		Dilution Factor: 1				
Potassium	1180	576	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10L
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10M
		Dilution Factor: 1				
Sodium	ND	576	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10N
		Dilution Factor: 1				
Vanadium	21.2	5.8	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10P
		Dilution Factor: 1				
Zinc	64.6	2.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJN10Q
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7530R

TOTAL Metals

Lot-Sample #...: H8F260208-012 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.041	mg/kg	SW846 7471A	07/14/98	CJDJP12M
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**4410**	**24.9**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJP10F**
		Dilution Factor: 1				
Arsenic	**2.6**	**2.5**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJP128**
		Dilution Factor: 2				
Lead	**4.9**	**0.75**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJP12C**
		Dilution Factor: 2				
Antimony	ND	7.5	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP10J
		Dilution Factor: 1				
Barium	ND	24.9	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP10M
		Dilution Factor: 1				
Selenium	ND	1.2	mg/kg	SW846 6010A	07/17-07/20/98	CJDJP12F
		Dilution Factor: 2				
Beryllium	ND	0.62	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP10Q
		Dilution Factor: 1				
Thallium	ND	2.5	mg/kg	SW846 6010A	07/17-07/20/98	CJDJP12J
		Dilution Factor: 2				
Cadmium	ND	0.62	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP10U
		Dilution Factor: 1				
Calcium	**63200**	**622**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJP10X**
		Dilution Factor: 1				
Chromium	**9.2**	**1.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJP112**
		Dilution Factor: 1				
Cobalt	ND	6.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP115
		Dilution Factor: 1				
Copper	**11.2**	**3.1**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJP118**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7530R

TOTAL Metals

Lot-Sample #...: H8F260208-012 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	9480	12.4	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP11C
		Dilution Factor: 1				
Magnesium	16800	622	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP11F
		Dilution Factor: 1				
Manganese	184	1.9	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP11J
		Dilution Factor: 1				
Nickel	8.4	5.0	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP11M
		Dilution Factor: 1				
Potassium	1050	622	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP11Q
		Dilution Factor: 1				
Silver	ND	1.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP11U
		Dilution Factor: 1				
Sodium	ND	622	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP11X
		Dilution Factor: 1				
Vanadium	20.9	6.2	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP122
		Dilution Factor: 1				
Zinc	24.8	2.5	mg/kg	SW846 6010A	07/17-07/18/98	CJDJP125
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORPORATION - KNOXVILLE

Client Sample ID: 7531R

TOTAL Metals

Lot-Sample #...: H8F260208-013 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8194290						
Mercury	ND	0.042	mg/kg	SW846 7471A	07/14/98	CJDJQ10W
		Dilution Factor: 1				
Prep Batch #...: 8198109						
Aluminum	**9820**	**25.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJQ106**
		Dilution Factor: 1				
Arsenic	**6.6**	**1.3**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJQ10R**
		Dilution Factor: 1				
Lead	**7.5**	**0.38**	**mg/kg**	**SW846 6010A**	**07/17-07/20/98**	**CJDJQ10T**
		Dilution Factor: 1				
Antimony	ND	7.6	mg/kg	SW846 6Q10A	07/17-07/18/98	CJDJQ107
		Dilution Factor: 1				
Barium	**81.4**	**25.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJQ108**
		Dilution Factor: 1				
Selenium	ND	0.63	mg/kg	SW846 6010A	07/17-07/20/98	CJDJQ10U
		Dilution Factor: 1				
Beryllium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ109
		Dilution Factor: 1				
Thallium	ND	1.3	mg/kg	SW846 6010A	07/17-07/20/98	CJDJQ10V
		Dilution Factor: 1				
Cadmium	ND	0.63	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10A
		Dilution Factor: 1				
Calcium	**47900**	**631**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJQ10C**
		Dilution Factor: 1				
Chromium	**15.4**	**1.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJQ10D**
		Dilution Factor: 1				
Cobalt	**10.4**	**6.3**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJQ10E**
		Dilution Factor: 1				
Copper	**18.9**	**3.2**	**mg/kg**	**SW846 6010A**	**07/17-07/18/98**	**CJDJQ10F**
		Dilution Factor: 1				

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IT CORPORATION - KNOXVILLE

Client Sample ID: 7531R

TOTAL Metals

Lot-Sample #...: H8F260208-013 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	18700	12.6	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10G
		Dilution Factor: 1				
Magnesium	17200	631	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10H
		Dilution Factor: 1				
Manganese	727	1.9	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10J
		Dilution Factor: 1				
Nickel	27.6	5.0	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10K
		Dilution Factor: 1				
Potassium	1870	631	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10L
		Dilution Factor: 1				
Silver	ND	1.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10M
		Dilution Factor: 1				
Sodium	710	631	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10N
		Dilution Factor: 1				
Vanadium	27.2	6.3	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10P
		Dilution Factor: 1				
Zinc	54.1	2.5	mg/kg	SW846 6010A	07/17-07/18/98	CJDJQ10Q
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8G130000-290 **Prep Batch #...:** 8194290						
Mercury	ND	0.033	mg/kg	SW846 7471A	07/14/98	CJQ8C101
		Dilution Factor: 1				
MB Lot-Sample #: H8G170000-109 **Prep Batch #...:** 8198109						
Aluminum	ND	20.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N101
		Dilution Factor: 1				
Arsenic	ND	1.0	mg/kg	SW846 6010A	07/17-07/20/98	CJV7N10P
		Dilution Factor: 1				
Antimony	ND	6.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N102
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010A	07/17-07/20/98	CJV7N10J
		Dilution Factor: 1				
Barium	ND	20.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N103
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010A	07/17-07/20/98	CJV7N10K
		Dilution Factor: 1				
Beryllium	ND	0.50	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N104
		Dilution Factor: 1				
Thallium	ND	1.0	mg/kg	SW846 6010A	07/17-07/20/98	CJV7N10L
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N105
		Dilution Factor: 1				
Calcium	ND	500	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N106
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10F
		Dilution Factor: 1				
Cobalt	ND	5.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10G
		Dilution Factor: 1				
Copper	ND	2.5	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10H
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	10.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N107
		Dilution Factor: 1				
Magnesium	ND	500	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N108
		Dilution Factor: 1				
Manganese	ND	1.5	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N109
		Dilution Factor: 1				
Nickel	ND	4.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10A
		Dilution Factor: 1				
Potassium	ND	500	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10C
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10D
		Dilution Factor: 1				
Sodium	ND	500	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10E
		Dilution Factor: 1				
Vanadium	ND	5.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10M
		Dilution Factor: 1				
Zinc	ND	2.0	mg/kg	SW846 6010A	07/17-07/18/98	CJV7N10N
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F260208-010 **Prep Batch #...:** 8194290							
Mercury	102	(55 - 130)			SW846 7471A	07/14/98	CJDJM12N
	100	(55 - 130)	1.7	(0-20)	SW846 7471A	07/14/98	CJDJM12P
		Dilution Factor: 1					
MS Lot-Sample #: H8F260208-010 **Prep Batch #...:** 8198109							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM10G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJDJM10H
		Dilution Factor: 1					
Arsenic	87	(80 - 120)			SW846 6010A	07/17-07/20/98	CJDJM129
	87	(80 - 120)	0.44	(0-20)	SW846 6010A	07/17-07/20/98	CJDJM12A
		Dilution Factor: 1					
Antimony	71 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM10K
	65 N	(80 - 120)	8.3	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM10L
		Dilution Factor: 1					
Lead	87	(80 - 120)			SW846 6010A	07/17-07/20/98	CJDJM12D
	85	(80 - 120)	2.3	(0-20)	SW846 6010A	07/17-07/20/98	CJDJM12E
		Dilution Factor: 1					
Barium	109	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM10N
	103	(80 - 120)	4.5	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM10P
		Dilution Factor: 1					
Selenium	84	(80 - 120)			SW846 6010A	07/17-07/20/98	CJDJM12G
	84	(80 - 120)	0.34	(0-20)	SW846 6010A	07/17-07/20/98	CJDJM12H
		Dilution Factor: 1					
Beryllium	107	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM10R
	102	(80 - 120)	4.2	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM10T
		Dilution Factor: 1					
Thallium	82	(80 - 120)			SW846 6010A	07/17-07/20/98	CJDJM12K
	81	(80 - 120)	1.1	(0-20)	SW846 6010A	07/17-07/20/98	CJDJM12L
		Dilution Factor: 1					
Cadmium	107	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM10V
	106	(80 - 120)	0.80	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM10W
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	112	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM110
	176 N,*	(80 - 120)	24	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM111
		Dilution Factor: 1					
Chromium	128 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM113
	122 N	(80 - 120)	3.4	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM114
		Dilution Factor: 1					
Cobalt	98	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM116
	93	(80 - 120)	4.2	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM117
		Dilution Factor: 1					
Copper	99	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM119
	94	(80 - 120)	3.4	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM11A
		Dilution Factor: 1					
Iron	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM11D
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJDJM11E
		Dilution Factor: 1					
Magnesium	121 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM11G
	137 N	(80 - 120)	7.6	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM11H
		* Dilution Factor: 1					
Manganese	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM11K
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJDJM11L
		Dilution Factor: 1					
Nickel	98	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM11N
	91	(80 - 120)	5.3	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM11P
		Dilution Factor: 1					
Potassium	141 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM11R
	138 N	(80 - 120)	1.7	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM11T
		Dilution Factor: 1					
Silver	95	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM11V
	93	(80 - 120)	2.0	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM11W
		Dilution Factor: 1					
Sodium	107	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM120
	104	(80 - 120)	2.4	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM121
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	125 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM123
	120	(80 - 120)	2.8	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM124
		Dilution Factor: 1					
Zinc	102	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJM126
	90	(80 - 120)	6.0	(0-20)	SW846 6010A	07/17-07/18/98	CJDJM127
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H8F260208-012 **Prep Batch #...:** 8194290							
Mercury	107	(55 - 130)			SW846 7471A	07/14/98	CJDJP12N
	104	(55 - 130)	2.6	(0-20)	SW846 7471A	07/14/98	CJDJP12P
		Dilution Factor: 1					
MS Lot-Sample #: H8F260208-012 **Prep Batch #...:** 8198109							
Aluminum	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP10G
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJDJP10H
		Dilution Factor: 1					
Arsenic	87	(80 - 120)			SW846 6010A	07/17-07/20/98	CJDJP129
	85	(80 - 120)	2.4	(0-20)	SW846 6010A	07/17-07/20/98	CJDJP12A
		Dilution Factor: 2					
Antimony	88	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP10K
	67 N,*	(80 - 120)	28	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP10L
		Dilution Factor: 1					
Lead	86	(80 - 120)			SW846 6010A	07/17-07/20/98	CJDJP12D
	86	(80 - 120)	0.18	(0-20)	SW846 6010A	07/17-07/20/98	CJDJP12E
		Dilution Factor: 2					
Barium	97	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP10N
	110	(80 - 120)	12	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP10P
		Dilution Factor: 1					
Selenium	85	(80 - 120)			SW846 6010A	07/17-07/20/98	CJDJP12G
	82	(80 - 120)	3.2	(0-20)	SW846 6010A	07/17-07/20/98	CJDJP12H
		Dilution Factor: 2					
Beryllium	105	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP10R
	103	(80 - 120)	1.9	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP10T
		Dilution Factor: 1					
Thallium	82	(80 - 120)			SW846 6010A	07/17-07/20/98	CJDJP12K
	79 N	(80 - 120)	3.6	(0-20)	SW846 6010A	07/17-07/20/98	CJDJP12L
		Dilution Factor: 2					
Cadmium	99	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP10V
	96	(80 - 120)	2.6	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP10W
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP110
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJDJP111
		Dilution Factor: 1					
Chromium	104	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP113
	128 N	(80 - 120)	16	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP114
		Dilution Factor: 1					
Cobalt	94	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP116
	91	(80 - 120)	2.9	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP117
		Dilution Factor: 1					
Copper	97	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP119
	95	(80 - 120)	1.6	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP11A
		Dilution Factor: 1					
Iron	NC,MSB	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP11D
	NC,MSB	(80 - 120)		(0-20)	SW846 6010A	07/17-07/18/98	CJDJP11E
		Dilution Factor: 1					
Magnesium	88	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP11G
	95	(80 - 120)	1.9	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP11H
		Dilution Factor: 1					
Manganese	133 N	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP11K
	150 N	(80 - 120)	3.8	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP11L
		Dilution Factor: 1					
Nickel	92	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP11N
	93	(80 - 120)	0.92	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP11P
		Dilution Factor: 1					
Potassium	112	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP11R
	140 N	(80 - 120)	20	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP11T
		Dilution Factor: 1					
Silver	92	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP11V
	87	(80 - 120)	5.8	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP11W
		Dilution Factor: 1					
Sodium	103	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP120
	101	(80 - 120)	1.9	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP121
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID
Date Sampled...: 06/25/98 **Date Received..:** 06/26/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	101	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP123
	114	(80 - 120)	8.8	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP124
		Dilution Factor: 1					
Zinc	95	(80 - 120)			SW846 6010A	07/17-07/18/98	CJDJP126
	111	(80 - 120)	11	(0-20)	SW846 6010A	07/17-07/18/98	CJDJP127
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8G130000-290 **Prep Batch #...:** 8194290					
Mercury	98	(80 - 120)	SW846 7471A	07/14/98	CJQ8C102
		Dilution Factor: 1			
LCS Lot-Sample#: H8G170000-109 **Prep Batch #...:** 8198109					
Aluminum	107	(89 - 119)	SW846 6010A	07/17-07/18/98	CJV7N10Q
		Dilution Factor: 1			
Antimony	116	(86 - 119)	SW846 6010A	07/17-07/18/98	CJV7N10R
		Dilution Factor: 1			
Barium	102	(88 - 110)	SW846 6010A	07/17-07/18/98	CJV7N10T
		Dilution Factor: 1			
Beryllium	108	(80 - 118)	SW846 6010A	07/17-07/18/98	CJV7N10U
		Dilution Factor: 1			
Cadmium	105	(80 - 113)	SW846 6010A	07/17-07/18/98	CJV7N10V
		Dilution Factor: 1			
Calcium	107	(84 - 117)	SW846 6010A	07/17-07/18/98	CJV7N10W
		Dilution Factor: 1			
Copper	102	(86 - 111)	SW846 6010A	07/17-07/18/98	CJV7N10X
		Dilution Factor: 1			
Lead	95	(84 - 110)	SW846 6010A	07/17-07/20/98	CJV7N11A
		Dilution Factor: 1			
Selenium	90	(80 - 110)	SW846 6010A	07/17-07/20/98	CJV7N11C
		Dilution Factor: 1			
Thallium	90	(83 - 110)	SW846 6010A	07/17-07/20/98	CJV7N11D
		Dilution Factor: 1			
Vanadium	102	(89 - 113)	SW846 6010A	07/17-07/18/98	CJV7N11E
		Dilution Factor: 1			
Zinc	100	(89 - 118)	SW846 6010A	07/17-07/18/98	CJV7N11F
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: PB036 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	103	(87 - 120)	SW846 6010A	07/17-07/18/98	CJV7N110
		Dilution Factor: 1			
Magnesium	106	(86 - 119)	SW846 6010A	07/17-07/18/98	CJV7N111
		Dilution Factor: 1			
Manganese	101	(89 - 112)	SW846 6010A	07/17-07/18/98	CJV7N112
		Dilution Factor: 1			
Nickel	102	(88 - 115)	SW846 6010A	07/17-07/18/98	CJV7N113
		Dilution Factor: 1			
Potassium	105	(83 - 113)	SW846 6010A	07/17-07/18/98	CJV7N114
		Dilution Factor: 1			
Silver	102	(80 - 117)	SW846 6010A	07/17-07/18/98	CJV7N115
		Dilution Factor: 1			
Sodium	107	(85 - 115)	SW846 6010A	07/17-07/18/98	CJV7N116
		Dilution Factor: 1			
Chromium	107	(87 - 118)	SW846 6010A	07/17-07/18/98	CJV7N117
		Dilution Factor: 1			
Cobalt	104	(87 - 110)	SW846 6010A	07/17-07/18/98	CJV7N118
		Dilution Factor: 1			
Arsenic	94	(83 - 110)	SW846 6010A	07/17-07/20/98	CJV7N119
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Receipt Documentation

QUANTERRA
Environmental Services

Sample Delivery Group
Assignment Form

IT CORPORATION
PLUMBROOK ORDNANCE WORKS
SDG# PB036

*	DATE REC'D	LOT#	CLIENT ID	VOC	SVOC	PCB	TOTAL	EXP
				8260A	8270B	8081	6010A	8330
1	6/26/98	H8F260208	8740				X	X
2			8750	X	X	X	X	X
3			8760				X	X
4			8780	QC	QC	QC	QC	QC
5			8781	X	X	X	X	X
6			8790				X	X
7			8800				X	X
8			7360R				X	X
9			7380R				X	X
10			7520R				X	X
11			7530R	QC	QC	QC	QC	QC
12			7531R	X	X	X	X	X
13			7540				X	X
14								
15								
16								
17								
18								
19								
20								
21								

A = ARVADA
T = QES TAMPA
WS = QES WEST SACRAMENTO

MATRIX: SOIL
ANALYTICAL DUE: 7-20-98
REPORT DUE: 7-23-98
CLOSED?_YES___

7/31/98 3:01 PM

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp **PROJECT:** Plumbrook **Lot No.:** H8F260208

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
c. Were samples received with correct preservative (excluding Encore)?			✓
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?			✓
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the (QAMP) holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 6/26/98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 73581			
b. Informed Login associates of special instructions ?			

2. If custody seals were missing/not intact, was client notified?

PROJECT MANAGER : [signature] DATE: 6/26/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample preservative:_____
	4e Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKNX PROJECT: PBOW Lot No.: H8F260208

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA
1. Client Documents (Request for Analysis/Chain of Custody):			
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?			✓
d. Is cooler temperature & custody seal condition noted on COC?	✓		
2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?			✓
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?	✓		
g. Are client assigned QC samples properly defined?	✓		
3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?	✓		
c. If samples were subcontracted, was copy of COC in folder?			✓
4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?	✓		
b Is SDG number noted in Lot header & sample comments?	✓		
c. If SDG is complete, has the due date been revised & marked closed?			✓
5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?			✓
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: [signature] DATE: 6/29/98

QA016R7.doc, 01/29/98

Quote # 28581

H8F260208

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062598QESK

Project Number: 773701

Samples Shipment Date: 25-JUN-98

Project Name: PLUMBROOK ORDNANCE WOR

ab Destination: Quanterra - Knoxville

Sample Coordinator: Duane Nielsen

Lab Contact: John Reynolds

Turnaround Time:

Project Contact: Kim Napier

Carrier/Waybill No.: Fed Ex/801624850112

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown |X|

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/25/98 Time: 1800

2. Relinquished By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:

Sample Disposal:

Return to Client | | Disposal by Lab |X| Archive (mos.)

1. Received By (Signature/Affiliation) [signature] Date: 6/26/98 Time: 0930

2. Received By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd @ 5 °C
w/ custody Seals Intact
BPB 6/26/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8130	PBOW-98-GW-WARP-DP01-8130	25-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8130	PBOW-98-GW-WARP-DP01-8130	25-JUN-98	11:00	1 L Amb. Glass	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8250B	PBOW-98-GW-WARP-DP04-8250	25-JUN-98	12:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7471 in soil	N		
8250B	PBOW-98-GW-WARP-DP04-8250	25-JUN-98	12:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	1 L HDPE	2	HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	1 L Amb. Glass	1	None except cool to 4 C	PCBs by SW8081	N		
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	1 L Amb. Glass	1	None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	40 ml GVIAL,SEP	3	HCl, pH<2	TCL Volatiles by SW-846 8260A	N		

H8F260208

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8730	PBOW-98-GW-WARP-DP16-8730	25-JUN-98	14:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8740	PBOW-98-SO-WARP-DP17-8740-(000	25-JUN-98	14:15	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8740	PBOW-98-SO-WARP-DP17-8740-(000	25-JUN-98	14:15	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8750	PBOW-98-SO-WARP-DP17-8750-(040	25-JUN-98	14:20	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8750	PBOW-98-SO-WARP-DP17-8750-(040	25-JUN-98	14:20	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8750	PBOW-98-SO-WARP-DP17-8750-(040	25-JUN-98	14:20	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8750	PBOW-98-SO-WARP-DP17-8750-(040	25-JUN-98	14:20	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8760	PBOW-98-SO-WARP-DP17-8760-(091	25-JUN-98	14:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8760	PBOW-98-SO-WARP-DP17-8760-(091	25-JUN-98	14:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	1 L Amb. Glass	2 None except cool to 4 C	TCL Semivolatiles by SW-846 8270B in soil	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	40 ml GVIAL,SEP	3 HCl, pH<2	TCL Volatiles by SW-846 8260A	N		
8770	PBOW-98-GW-WARP-DP17-8770	25-JUN-98	13:00	1 L HDPE	2 HNO3, pH<2	TAL Metals by SW-846 6010A/7470 in water	N		
8780	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8780	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8780	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8780	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8780-MS	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8780-MS	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8780-MS	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8780-MS	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8780-MSD	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8780-MSD	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8780-MSD	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8780-MSD	PBOW-98-SO-WARP-DP18-8780-(000	25-JUN-98	15:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8781	PBOW-98-SO-WARP-DP18-8781-(000	25-JUN-98	15:30	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
8781	PBOW-98-SO-WARP-DP18-8781-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
8781	PBOW-98-SO-WARP-DP18-8781-(000	25-JUN-98	15:30	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8781	PBOW-98-SO-WARP-DP18-8781-(000	25-JUN-98	15:30	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
8790	PBOW-98-SO-WARP-DP18-8790-(040	25-JUN-98	15:40	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: WARP-062598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
8790	PBOW-98-SO-WARP-DP18-8790-(040	25-JUN-98	15:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8800	PBOW-98-WARP--WARP-DP18-8800	25-JUN-98	15:50	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
8800	PBOW-98-WARP--WARP-DP18-8800	25-JUN-98	15:50	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
9037		25-JUN-98	11:00	40 ml GVIAL,SEP	3	HCl<pH 2	TCL Volatiles by SW-846 8260A	N		

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-062598QESK

Project Number: 773701
Samples Shipment Date: 25-JUN-98
Project Name: PLUMBROOK ORDNANCE WOR
ab Destination: Quanterra - Knoxville
Sample Coordinator: Duane Nielsen
Lab Contact: John Reynolds
Turnaround Time:
Project Contact: Kim Napier
Carrier/Waybill No.: Fed Ex/801624850112

Bill To: Accounts Receivable
312 Directors Drive
Knoxville TN 37923

Report To: Kim Napier
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/25/98 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) [signature] Date: 6/26/98 Time: 0930
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments: 1L TOTAL METALS; 1L FILTERED METALS

Rec'd @ 5 °C
w/custody seals
Intact BPB 6/26/98

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7360R	PBOW-98-SO-PRRP-DP05-7360-(0001	25-JUN-98	10:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7360R	PBOW-98-SO-PRRP-DP05-7360-(0001	25-JUN-98	10:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7380R	PBOW-98-SO-PRRP-DP05-7360-(0001	25-JUN-98	10:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7380R	PBOW-98-SO-PRRP-DP05-7360-(0001	25-JUN-98	10:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7520R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:30	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7520R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:30	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1	None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	1	None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: PRRP-062598QESK

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
7530R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530R-MS	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530R-MS	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530R-MS	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7530R-MS	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530R-MSD	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7530R-MSD	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7530R-MSD	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7530R-MSD	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7531R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7531R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	8 oz CWM	1 None except cool to 4 C	PCBs by SW8081, TCL Semivolatiles by SW-846 8270B in soil	N		
7531R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	2 None except cool to 4 C	TCL Volatiles by SW-846 8260A	N		
7531R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:40	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7540R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:50	8 oz CWM	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7540R	PBOW-98-SO-PRRP-DP09-7520-(0001	25-JUN-98	09:50	4 oz CWM	1 None except cool to 4 C	TAL Metals by SW-846 6010A/7471 in soil	N		
7630R	PBOW-98-GW-PRRP-DP11-7630	25-JUN-98	15:00	1 L Amb. Glass	1 None except cool to 4 C	Nitroaromatics by SW-846 8330 in soil	N		
7630R	PBOW-98-GW-PRRP-DP11-7630	25-JUN-98	15:00	1 L Amb. Glass	1 None except cool to 4 C	PCBs by SW8081	N		