

**Final
Quality Control Plan**

**Long-Term Monitoring / Maintenance Services
for
Groundwater Monitoring Wells
Plum Brook Ordnance Works
Sandusky, Ohio**

Contract Number: W91237-10-C-0001

Prepared for:

**Department of the Army
Huntington District, Corps of Engineers
502 Eighth Street
Huntington, West Virginia 25701**

Prepared by:



TMG Services, Inc.
240 Oliver Street, Suite 1
St. Albans, West Virginia 25177
Phone: (304) 722-6015
Fax: (304)722-6017

TMG Project Number: TMG 09-23

June 2010

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DEFINITIONS AND ACRONYMS

CELRH	USACE Huntington District
IQCT	Independent Quality Control Team
ISO	International Organization for Standardization
LTM	Long-Term Monitoring / Maintenance
POC	Point of Contact
QAR	Quality Assurance Review
QCR	Quality Control Report
QC	Quality Control
QCO	Quality Control Officer
QCP	Quality Control Plan
SOW	Scope of Work
TMG	TMG Services, Inc.
USACE	United States Army Corps of Engineers

Final Quality Control Plan

Long-Term Monitoring / Maintenance Services for Groundwater Monitoring Wells Plum Brook Ordnance Works Sandusky, Ohio

Contract No. W91237-10-C-0001

1.0 PURPOSE

This TMG Services, Inc. (TMG) Quality Control Plan (QCP) is based on the professional competence of the employees performing the project tasks and it defines the responsibilities and roles of each member of the project team. TMG has high standards for its employees and subcontractors involved in all projects. Project tasks are assigned in accordance with clearly demonstrated capabilities. Quality Control (QC) is implemented within the project framework by a distinct QC organization functioning under established guidelines. This QCP ensures the development of a high quality technical product that requires little revision prior to the final Quality Assurance Review (QAR).

The Huntington District of the United States Army Corps of Engineers (USACE) has achieved International Organization for Standardization (ISO) 9000 certification. TMG is dedicated to providing quality services to the USACE and to support them in continuing to meet the ISO 9000 standards.

2.0 REFERENCES

The general QC program is designed to ensure quality performance, traceable results, and confidence in the documents prepared for all projects completed by the firm. This project will adhere to the following guidelines established by the Department of the Army, Corps of Engineers:

- A. CELRH 5-2-7 Quality Management Plan.
- B. ER 1110-1-2 Engineering and Design Quality Management
- C. CELRDC 5-1-1 Quality Management Plan
- D. Applicable ISO 9000 processes - based on procedures and work instructions from Huntington District Corps of Engineers, Engineering /Construction Division
(<http://www.lrh.usace.army.mil/ct/quality/>)

3.0 GENERAL PROJECT INFORMATION

3.1 Project Type

This project requires the contractor to provide long-term monitoring and maintenance (LTM) services for approximately 135 groundwater monitoring wells in and around the former Plum Brook Ordnance Works located in Sandusky, Ohio. The LTM services include mowing and weed removal in areas leading to the well and immediately adjacent to the well. Maintenance of the wells is also part of the scope of this project. Maintenance includes painting, labeling, replacing caps, etc. In addition to the maintenance, the contractor is required to collect groundwater levels of each monitoring well. Upon the completion of the field activities, a final report will document maintenance activities and seasonal groundwater fluctuations.

3.2 Project Location

Activities associated with this project will be carried out in West Milton and Sandusky, Ohio.

3.3 Customer/Sponsor

USACE, Huntington District (CELRH) (Contract No. W91237-10-C-0001)

3.4 Project Description

TMG will provide LTM services by completing the following tasks:

1. Mowing of areas leading to the wells and areas immediately adjacent to the wells.
2. Weed removal around the wells.
3. Well maintenance, including painting, labeling, lubrication of hinges, lock replacement, and cap replacement.
4. Measuring water levels in the groundwater monitoring wells. The measurements are collected quarterly.
5. Prepare a Well Maintenance report to summarize the maintenance activities and to document the seasonal groundwater fluctuations.

4.0 QUALITY CONTROL PLAN

An effective QCP is important to the undertaking of this program due to the various degrees of technical applications. An effective QCP will ensure that high quality products and services will be produced that satisfy USACE standard practices, policies and guidelines.

Project Manager— TMG’s Project Manager provides technical insight and provides corporate level supervision for the project. The Project Manager has overall responsibility to see that the project is completed in accordance with the Scope of Work.

<u>TMG Services, Inc. Project Manager</u>	<u>Contact Information</u>
Helen Owens	Cellular Phone: (419) 504-8008 Email: howens@tmgservicesusa.com

Quality Control Officer—This person is responsible for QC at the site. This person has the authority to stop the work if QC is not being met. The QC Officer shall be responsible for ensuring all activities are completed as required in the Scope of Work.

<u>TMG Services, Inc. QC Officer</u>	<u>Contact Information</u>
James Russell	Cellular Phone: (216) 323-9864 Email: jrussell@tmgservicesusa.com

5.0 INTERNAL QUALITY CONTROL AND INDEPENDENT QUALITY CONTROL TEAM

The project will be conducted under the guidance of the Senior Project Manager. The Senior Project Manager will be responsible for ensuring a quality product in the functional area through internal checks and reviews. An internal quality control team will independently review the work plans and reports. This work will be conducted with full communication between team members. Review of problems shall be in writing. Comments from the independent quality control team will be resolved or incorporated in the work plans and reports generated for this project. Only quality products will be released from the review team after signoffs.

In addition to the review of the plans/report by the Senior Project Manager, two independent reviewers (1 senior reviewer and 1 peer reviewer) shall review all project submittals. The Senior Reviewer will perform a review of all plans for precision, accuracy, representativeness, comparability, completeness, and verification that the work has been conducted in accordance with the SOW, policies, and guidelines. All comments resulting from the various reviews will be resolved and/or incorporated in the project submittals.

The Senior Reviewer for this project is:

<u>Senior Review</u>	<u>Contact Information</u>
Kimberlie Bumgardner	Office Phone: (304) 201-2205 Cellular Phone: (304) 215-0099 Email: kchambers@mctechreadymix.com

A Peer Review of the plans will be performed to determine their adequacy, completeness, and verification that the work was conducted in accordance with the scope of work, policies and guidelines.

Peer Review

Richard Armstrong

Contact Information

Office Phone: (304) 201-2205

Cellular Phone: (304) 932-5490

Email: rarmstrong@mctechreadymix.com

Appendix A contains resumes for members of the IQCT team, project manager, Site-Safety and Health Officer (SSHO), and QCO.

6.0 QUALITY CONTROL WORK PLAN

Quality Control (QC) review of all products and services provided by the contractor will be reviewed by the QCO, James Russell and the Project Manager, Helen Owens. Ms. Owens will ensure quality within standard USACE practices, policies and guidelines, prior to official submittal.

Independent technical reviews will be conducted by technically qualified professionals, who have not been directly involved with product development and who will ensure that:

- The concepts, assumptions, features, methods, analyses, and details are appropriate, fully coordinated, and correct,
- An appropriate range of feasible alternatives was evaluated,
- The problems, opportunities, and issues are properly defined and scoped,
- The analytical methods used are appropriate and yield reliable results,
- The results and recommendations are reasonable, within policy guidelines, and supported by the presentation,
- Any deviations from policy, guidance, and standards are appropriately identified and have been properly approved,
- The products meet the customers' needs

All reports, documents, products, and related materials that are prepared by the contractor will be on file in their office. All reports, documents, products and related materials will be sent to the POC or approved USACE entity for review and approval.

The following QC Work Plan will be followed:

Groundwater Monitoring Well LTM and Water Level Measurements

Site Access

1. The contractor will coordinate all field activities with the USACE POC.
2. The contractor will make all arrangements required to access the PBOW site. Notification to the appropriate NASA Point-of-Contact (POC) will be made approximately one week prior to the field activities.

3. The contractor and their employees will comply with all NASA requirements for entrance and on-site activities.

Mowing and Maintenance Activities

The mowing team will consist of TMG personnel. TMG personnel will be responsible for providing the mowing and maintenance services as outlined below:

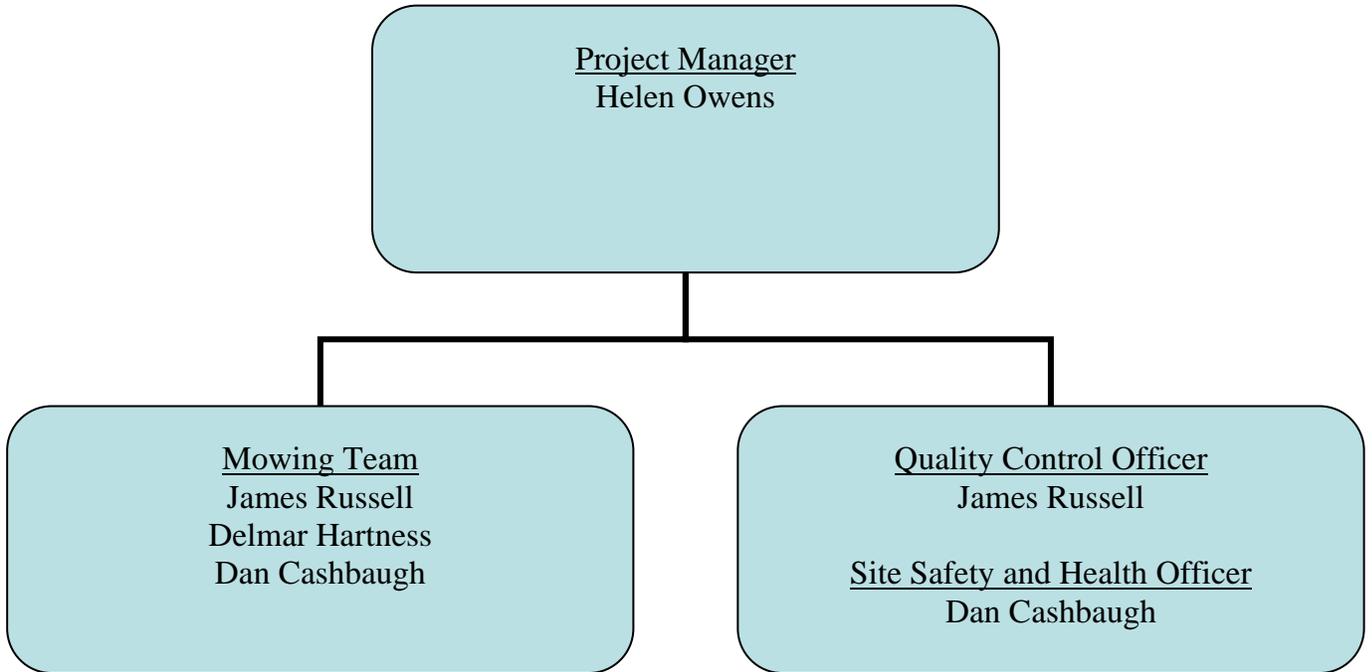
1. The contractor will document all maintenance activities which will be summarized in the final groundwater monitoring report.
2. Mowing will be performed in the areas leading to each wells and a 10-foot radius will be mowed around each well. Weed eating will be used to remove weeds around the base of the well and around bollards, platforms, etc.
3. Routes to the well will be cleared to allow uninhibited access to the well.
4. Photographs of each well will be taken during the last mowing activity to document the condition of the well and the adjacent area.

Groundwater Level Measurements

The groundwater level measurements will be conducted by Helen Owens and will be conducted as outlined below:

1. Water levels will be measured using a Solinst water-level meter capable of determining the presence of oil on the water surface.
2. The water levels and maintenance will be documented in a bound notebook.
3. All water levels and maintenance data will be documented and presented in a report to the POC upon completion of field activities.
4. Water levels will be provided electronically to USACE for incorporation into the various project's groundwater investigations..

7.0 ORGANIZATIONAL CHART



Resumes of team members are included in Appendix A of this QCP.

APPENDIX A Resumes of Key Personnel

Project Manager

Helen Owens



Helen Owens

Project Manager

Voice: (304) 722-6015

Data: (304) 722-6017

Cellular: (419) 504-8008

Email: howens@tmgservicesusa.com

Education

A.A.S., Environmental Quality Assurance, 1977

B.S., Business Management, June 2004

Training and Certifications

Class I Wastewater Operator, Ohio

Class I Laboratory Analyst, Ohio

Certified – 40 Hour Hazardous Waste Operations and Emergency Response (HAZWOPER)

Current HAZWOPER Refresher

Professional Experience

With over 33 years experience as an environmental consultant and technician, Ms. Owens has diverse experience in air and water pollution evaluations including protocol development, management of field activities, data collection, industrial and municipal wastewater treatment, process evaluations, and compliance consulting.

Ms. Owens is currently providing technical support to the US Army Corps of Engineers (USACE)-Huntington District on the Restoration Advisory Board for the Plum Brook Ordnance Works, Sandusky, Ohio. Her responsibilities include public outreach activities, coordination of public meetings, newsletters, development of the Community Relations Plan, and other tasks as directed by the USACE Project Manager. Also for the Huntington District, Ms. Owens provides technical support in the collection of seasonal groundwater level fluctuations to support groundwater modeling development, and collection and interpretation of monitoring well water levels, coordination and implementation of an off-site well survey to determine migration patterns of contaminants. Ms. Owens provided contractor support in USACE's composting project to reduce TNT and DNT contamination levels. In addition to the Huntington District, Ms. Owens also provides contractor support to USACE-Nashville District on the Remedial



Investigation / Feasibility Study of the former Plum Brook Ordnance Works (PBOW), located in Sandusky, Ohio. PBOW manufactured TNT and DNT in WWII and investigations have identified 16 areas of concern with regard to soil and groundwater contamination.

Ms. Owens currently provides program support to the City of Marysville, Ohio where she is responsible for the implementation of the Industrial Pretreatment Program (IPP). Ms. Owens provides similar support services to the City of Mason, Ohio. Her services include development of an industrial user survey; permit writing, and coordination of industrial compliance activities, enforcement and development of Local Limit parameters. Ms. Owens has served as the Contract Pretreatment Coordinator for the City of Middletown, Ohio.

Ms. Owens provided technical guidance to industrial operations in troubleshooting specific wastewater treatment problems, including the development and implementation of an industrial wastewater operator training seminar, evaluation of industrial wastewater treatment operations and making recommendations to achieve and maintain regulatory compliance. She has also been responsible for the day-to-day operation of sanitary wastewater treatment plants as a contractor to the USACE, and small municipal and industrial facilities.

Ms. Owens' experience includes numerous projects, such as groundwater monitoring well and soil sampling, storm water monitoring, Phase I environmental assessments, preparation of air and wastewater permit applications, development of Spill Prevention, Control and Countermeasure (SPCC) Plans under the direction and review of a Professional Engineer, air emissions monitoring programs and environmental audits of industrial facilities.

In addition to working full-time as a consultant, in 2005 Ms. Owens opened her own business to support USACE in maintaining electronic documents in a database and on the Huntington Districts' Formerly Used Defense Site (FUDS) website. This activity is on-going and is conducted on a part-time schedule.

Certificate of Completion

(T)his certificate was presented to

HELEN J. OWENS

for successful completion of the

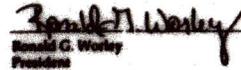
40-HOUR HEALTH & SAFETY TRAINING COURSE

In accordance with the

OSHA Hazardous Waste and Emergency Response Operations Standard
(29 CFR 1910.120)

JANUARY 14, 1982
Date

40C2916289720
Certificate number



Ronald G. Worley
President

Unger & Associates Educational Services, Inc.

THE NATIONAL ENVIRONMENTAL TRAINERS

Helen Owens

has satisfactorily passed an exam and completed an 8-hour annual refresher training course entitled
Hazardous Waste Operations and Emergency Response
meeting the requirements identified in Title 29 CFR 1910.120.

This course has been awarded 1.34 Industrial Hygiene CM Points by the American Board of Industrial Hygiene-Approval Number 13334. This course is also eligible for .66 Continuance of Certification (COC) points from the Board of Certified Safety Professionals



June 27, 2010

Course Number 1001, Awarded 8 PDH's
Florida Board of Professional Engineers
CEU Provider Number 0004284

www.nationalenvironmentaltrainers.com

Signature of Instructor

A handwritten signature in black ink, appearing to read 'CAB', is written over a light gray grid background.

Clay A. Bednarz, MS, RPIH

U.S. ARMY CORPS OF ENGINEERS



PROFESSIONAL DEVELOPMENT SUPPORT CENTER
HUNTSVILLE, ALABAMA

CERTIFICATE

This is to certify that

Helen Owens

has completed the Corps of Engineers Training Course

CONSTRUCTION QUALITY MANAGEMENT FOR CONTRACTORS

Given at Dayton, OH By CELRL-CD April 22-23, 2008
Location Instructional District Date

Wesley Barber
Facilitator

Sponsored by: Associated General Contractors

THIS CERTIFICATE EXPIRES FIVE YEARS FROM DATE OF ISSUE

Gary Z Anderson
Chief, USACE Professional Development Support Center

Quality Control Officer

James Russell



James Russell

Project Superintendent

Voice: (304) 722-6015

Data: (304) 722-6017

Cellular: (216) 857-1112

Email: jrussell@tmgservicesusa.com

Career Summary

Project Superintendent with over 10 years of experience in the construction and environmental trades. Experienced in the coordination and oversight of daily construction activities to ensure compliance with specifications, regulations, and schedules.

Training

OSHA – 30 Hour Construction

OSHA – 10 Hour Construction

USACE – Construction Quality Management for Contractors

40 Hour Hazardous Waste Operations and Emergency Response (with annual 8 hour refresher training)

Professional Experience

TMG Services, Inc., Saint Albans, WV

Project Superintendent

2009 – Present

McTech Corp, Cleveland, OH

Project Superintendent

2002-2009

Choice Construction Company, Inc., Cleveland, OH

Laborer

1999-2002

GeoTech Construction, Cleveland, OH

Laborer

2001-2002

Calabria Concrete, Cleveland, OH

Laborer

1998-2001



Certificate of Course Completion

James Russell

Student's Name

OSHA - 30 Hour Construction Industry Outreach Training Program

Course Title

09/03/2009 15:10 CST

Course Completion Date

Student's Signature

30

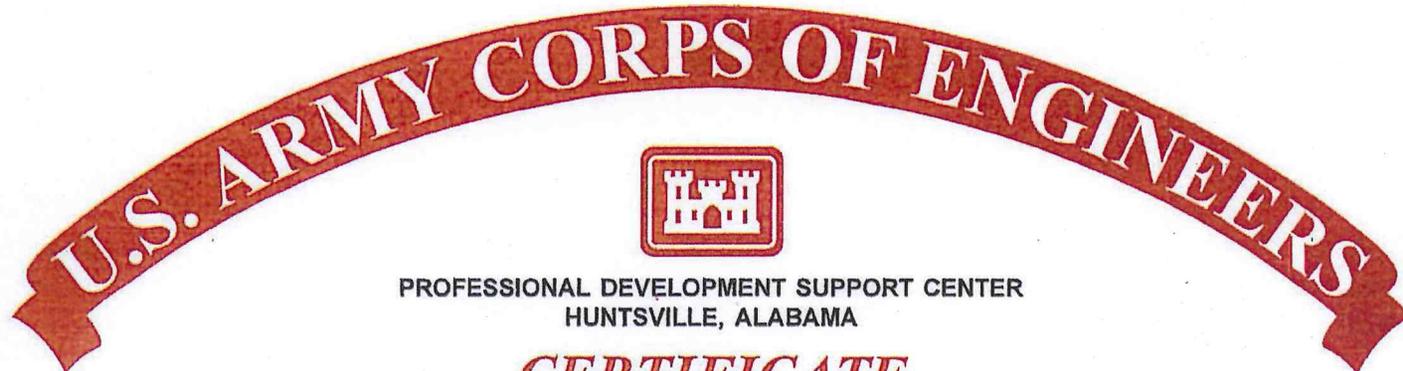
of hours approved

1321172

Certificate Number

I hereby attest that I have completed the above named safety course
in accordance with the ethical guidelines defined by, **Osha Pro's, Inc.**
I acknowledge that I consumed all information and took all Pertinent
quizzes and/or final tests.

Osha Pro's, Inc.
4101 West Green Oaks Blvd., Suite # 305-267
Arlington, TX, 76016
Tel: 866-442-6742



PROFESSIONAL DEVELOPMENT SUPPORT CENTER
HUNTSVILLE, ALABAMA

CERTIFICATE

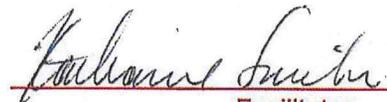
This is to certify that

James Russell

has completed the Corps of Engineers Training Course

CONSTRUCTION QUALITY MANAGEMENT FOR CONTRACTORS

Given at Dayton, OH By CELRL-CD September 23, 2009
Location Instructional District Date


Facilitator

THIS CERTIFICATE EXPIRES FIVE YEARS FROM DATE OF ISSUE

Sponsored by: *Associated General Contractors
West Central Ohio Division*


Chief, USACE Professional Development Support Center



American
Red Cross



This recognizes that
James Russell
has completed the requirements for

CPR/AED - Adult

conducted by
Greater Cleveland Chapter

Date Completed 4/22/2010

The American Red Cross recognizes this certificate
as valid for 1 year(s) from completion date.

American
Red Cross



This recognizes that
James Russell
has completed the requirements for

Standard First Aid

conducted by
Greater Cleveland Chapter

Date Completed 4/22/2010

The American Red Cross recognizes this certificate
as valid for 3 year(s) from completion date.

www.RedCross.org

Instructor's Signature

Chapter

Greater Cleveland Chapter

Holder's Signature

Stock No. 653998 (Rev. 5/08)

www.RedCross.org

Instructor's Signature

Chapter

Greater Cleveland Chapter

Holder's Signature

Stock No. 653998 (Rev. 5/08)

TRAINING ACKNOWLEDGMENT

TYPE OF TRAINING:

New Hire Hazwhoper Refresher

Other Sub-Contractor Training and/or Basic Contractor

Total Hours Trained 8

I James B. Russell acknowledge that I have received instruction and understand the following subjects (initial all that apply):

C&K Safety Training Programs:

YBR Hazard Communication

YBR Lockout/Tagout

YBR Confined Space

YBR Fire Extinguisher/Emergency Action

YBR Respiratory Protection

NIA Forklift

YBR Confined Space Communication

NIA Asbestos Awareness

YBR Personal Protective Equipment

NIA Drug Free Workplace

YBR General Company Safety Policies*

NIA Vac Truck Safety & Operations

NIA Waterblast Safety & Operations

NIA Manlift

NIA Lead Abatement

NIA Inorganic Arsenic Awareness

Site Specific Trainings:

NIA Alcoa- Contractor/Stand-down

NIA Charter Steel

NIA Reliant Energy

Other _____

YBR Other Fall Protection

YBR Other Fits-Testing

Other Monitoring Equipment

Other _____

* I have received a copy of C&K Abridged Safety Policy Manual.

James B. Russell 4-7-10
Employee Signature Date

John P. Gabriel 4-7-2010
Instructor Signature Date

Concentra Medical Centers (Ohio)

4660 Hinckley Industrial Pkwy CLEVELAND, OH 44109
Phone: (216) 749-2730 Fax: (216) 749-2736

PLHCP¹ WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 04/06/2010

Employee Name: _____

Employee SSN: XXX-XX-6578

Russell, James B.

Address: _____

2901 Hampton

SHAKER HEIGHTS OF OH 44120

Employer: TMG Services Inc

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check one that applies)

- There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ALL that apply)

- ARE qualified to wear a respirator.
- Have the following restrictions concerning respirator usage: _____
- ARE NOT qualified to wear a respirator.
- Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers (Ohio) so that a final decision on your ability to wear a respirator can be made.
- Must wear Special prescription eye-wear needed to accommodate respirator.
- Must use an Eye glass conversion kit.
- May need to shave Facial hair to assure tight seal on certain face masks.
- Need to stop smoking.

(Check ALL that apply)

- The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

PLHCP Name (printed)

¹Physician or other Licensed Healthcare Professional

Employee's Signature

4/6/2011

Expiration Date

To be maintained in the employee's file with a copy to the employee

Site Safety and Health Officer

Dan Cashbaugh



TMG Services, Inc

240 Oliver Street, Suite One
St. Albans, West Virginia 25177

Voice : 304-722-6015

Data : 304-722-6017

www.tmgservicesusa.net

Dan Cashbaugh **Project Superintendent**

Voice: (304) 722-6015

Data: (304) 722-6017

Cellular: (216) 404-8109

Email: dcashbaugh@tmgservicesusa.com

Career Summary

Project Superintendent with over 10 years of experience in the construction and environmental trades. Experienced in the coordination and oversight of daily construction activities to ensure compliance with specifications, safety regulations, and schedules.

Training

OSHA – 30 Hour Construction

OSHA – 10 Hour Construction

40 Hour Hazardous Waste Operations and Emergency Response (with annual 8 hour refresher training)

Professional Experience

TMG Services, Inc., Saint Albans, WV

Project Superintendent

2010 – Present

McTech Corp, Cleveland, OH

Project Superintendent

2003-2009



CERTIFICATE OF COMPLETION

Daniel Cashbaugh

has successfully completed the 30 Hour OSHA Construction Safety Course in accordance with 29CFR 1926

September 4, 2007 Date

C&K Industrial Services, Inc. John P. Yakovich Safety Instructor



CERTIFICATE OF COMPLETION

Daniel Cashbaugh

Has successfully completed the 40 Hour HAZWOPER Course in accordance with 29 CFR 1910.120

June 22, 2006 Date

C&K Industrial Services, Inc. John P. Yakovich Safety Instructor

OSHA 600141826



U.S. Department of Labor Occupational Safety and Health Administration

Daniel Cashbaugh

has successfully completed a 30-hour Occupational Safety and Health Training Course in

Construction Safety & Health

Trainer: [Signature]

12/5/2006 (Date)

Successful Completion Card

Basic TRAINING PROGRAMS

Name: DAN CASHBAUGH Issued: 1-26-10 Expires: 1-26-12

This certifies that the individual named above has successfully demonstrated the knowledge and skill objectives for:

- BasicPlus CPR, AED, and First Aid for Adults
Basic CPR and First Aid for Adults

Card not valid if more than one box is checked.



Instructor: LORI SAXTON

Registry Number: 40397

Training Center Phone No.:

Training Center ID: 130902

MEDIC FIRST AID® BasicPlus follows ILCOR, AHA, and ASTM recommendations and guidelines for CPR, first aid, and emergency care.

Continued proficiency as a MEDIC FIRST AID Provider requires frequent retraining. This card expires as documented on the front of the card or within 24 months of issue.

TRAINING ACKNOWLEDGMENT

TYPE OF TRAINING:

New Hire

Hazwhoper

Refresher

Other Sub-Contractor Training and/or Basic Contractor

Total Hours Trained 8

I Don Carls acknowledge that I have received instruction and understand the following subjects (initial all that apply):

C&K Safety Training Programs:

- OPC Hazard Communication
- OPC Lockout/Tagout
- OPC Confined Space
- OPC Fire Extinguisher/Emergency Action
- OPC Respiratory Protection
- NIA Forklift
- OPC Confined Space Communication
- NIA Asbestos Awareness

- OPC Personal Protective Equipment
- NIA Drug Free Workplace
- OPC General Company Safety Policies*
- NIA Vac Truck Safety & Operations
- NIA Waterblast Safety & Operations
- NIA Manlift
- NIA Lead Abatement
- NIA Inorganic Arsenic Awareness

Site Specific Trainings:

- NIA Alcoa- Contractor/Stand-down
- NIA Charter Steel

- NIA Reliant Energy
- Other _____

- OPC Other Fall Protection
- Other Monitoring Equipment

- OPC Other Fits-Testing
- Other _____

* I have received a copy of C&K Abridged Safety Policy Manual.

[Signature] 4-7-2010
Employee Signature Date

[Signature] 4-7-2010
Instructor Signature Date

Concentra Medical Centers (Ohio)

4660 Hinckley Industrial Pkwy CLEVELAND, OH 44109
Phone: (216) 749-2730 Fax: (216) 749-2735

PLHCP¹ WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 04/06/2010

Employee Name: Cashbaugh, Daniel P.

Employee SSN: XXX-XX-1919

Address: 1551 Price Rd.

YOUNGSTOWN OH 44509

Employer: TMG Services Inc

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check one that applies)

- There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

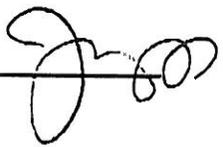
Based upon the results of this evaluation it is my opinion that you: (Check ALL that apply)

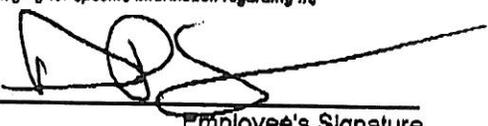
- ARE qualified to wear a respirator.
- Have the following restrictions concerning respirator usage: NO SCBA
- ARE NOT qualified to wear a respirator.
- Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers (Ohio) so that a final decision on your ability to wear a respirator can be made.
- Must wear Special prescription eye-wear needed to accommodate respirator.
- Must use an Eye glass conversion kit.
- May need to shave Facial hair to assure tight seal on certain face masks.
- Need to stop smoking.

(Check ALL that apply)

- The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature 

Employee's Signature 
4/6/2011
Expiration Date

PLHCP Name (printed)

¹Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

**Independent Quality Control Team
Senior Reviewer**

Kimberlie Bumgardner



KIMBERLIE K. BUMGARDNER

480 Roxalana Hills Drive

Dunbar, WV 25064

304-215-0099

kchambers@mctechreadymix.com

Education: **St. Cloud State University, St Cloud, MN**
Bachelor Degree in Earth Science, Geology, Hydrology, Chemistry
1993

Training and Certifications:

All Current

2006 16 Hours – USACE Construction Quality Management for Contractors

2006 30 Hours OSHA Basic Course in Construction Safety

2006 Certified Professional in Erosion and Sediment Control (CPESC)

2006 Visible Emissions Evaluation

2005 First Aid/CPR

2002 Certified Hazardous Materials Manager (CHMM 11519)

2001 Registered Environmental Manager (REM 11203)

1999 40 Hour Lead Inspector/Risk Manager

1996 40 Hour Asbestos Inspector/Management Planner

1995 EPA Certified to sample hazardous materials

1994 40 Hour Hazardous Water Site Operations (HAZWOPER)

Experience: **Project Manager**
McTech Corp, St. Albans, WV
2006 - Present

Project manager for multiple Federal, State and Local Government construction and environmental projects including broadly scoped Department of Army Construction Projects, Soil and Groundwater Remediation Projects, Defense Environmental Restoration Program for Formerly Utilized Defense Sites, Brownsfield Restoration and Redevelopment projects, and Soil and Ground Water Remediation System Designs & Implementations.

Successfully completed and ongoing projects for Department of the Army include:

- **Interim Soil Removal Action TNT B Plum Brook Ordnance Works, Sandusky, OH**

Serving as contractor's Project Manager for this project. This project includes the excavation, sampling, analysis, and disposal of nitroaromatic contaminated soil. Responsible for project oversight and coordination and worked directly with USACE, NASA, Ohio EPA, Erie County Landfill, subcontractors, and the

Restoration Advisory Board. Prepared and implemented Site-specific Safety and Health Plan, Quality Control Plan, and Plan of Operations.

- **Bulkhead Crane Replacement and Service Bridge Rehabilitation, Marmet Lock and Dam, Belle, WV**

Served as contractor's Project Manager during the execution of this project. This project included bridge rehabilitation, rebuilding of the bulkhead carts and building of a bulkhead crane. Responsible for project oversight and coordination with all subcontractors. Prepared and implemented Site-specific Safety and Health Plan and Quality Control Plan.

- **Bulkhead Crane Replacement, Pier 6 Crane Access and Dam Service Bridge Rehabilitation, London Locks and Dam, London, WV**

Serving as contractor's Project Manager for this project. This project included bridge rehabilitation and building of a bulkhead crane. Responsible for project oversight and coordination with all subcontractors. Prepared and implemented Site-specific Safety and Health Plan and Quality Control Plan.

- **Lime Treatment Pilot Study, Pentolite Road Red Water Ponds Area, Plum Brook Ordnance Works, Sandusky, OH**

Served as contractor's Project Manager during the execution of this project. The purpose of this project at Pentolite Road Red Water Ponds (PRRWP) was to study the application of lime for the treatment and reduction of nitroaromatics contamination present in the soil. Responsible for project oversight and coordination with all subcontractors. Prepared and implemented Site-specific Safety and Health Plan and Quality Control Plan.

- **Munitions Management, Former Talon Manufacturing Site, Alpoca, WV**

Served as contractor's Project Manager during the execution of this project. This project involved Mobile Ammunition Renovation, Inspection, and Demilitarization. Details of this project are kept confidential at the request of the Department of the Army Joint Munitions Command. Responsible for project oversight and coordination with all subcontractors.

- **Interim Soil Removal Action PRRWP, Sandusky, OH**

Served as contractor's Project Manager during the execution of this project. This project included the excavation, sampling, analysis, and disposal of nitroaromatic contaminated soil. Responsible for project oversight and coordination with all subcontractors. Prepared and implemented Site-specific Safety and Health Plan and Quality Control Plan.

- **Various construction projects under a Basic Ordering Agreement with the Department of the Army at Fort A.P. Hill near Bowling Green, VA**

Serving as contractor's Senior Project Manager for each project performed under the Basic Ordering Agreement. Responsible for project oversight and coordination with all subcontractors.

- **Interim Soil Removal Action, Soil Excavation and Disposal at Captina Island Erosion Control Dikes 2 &3, Ohio River Mile 108.2**

Served as Quality Control Officer during the execution of this project. This project included the excavation and disposal of contaminated dredge material that was placed in two erosion control dikes, immediately up stream of Captina Island located at Ohio River Mile 108.2. Approximately 700 tons of contaminated soil was removed from the erosion control dikes. Responsible for assuring that all work was completed according to the Scope of Work by performing quality control inspections and completing Daily Quality Control Reports.

Environmental Specialist

WTI, Poca, WV

2005 - 2006

Project manager for Superfund and NPL sites, Phase I and II Investigations, Groundwater Monitoring, Environmental Compliance and Regulatory Negotiations, Underground Storage Tank Removals, Water Treatment Plant Operations. Technical plan and report writing, plans include: Safety and Health, Quality Control, Work, Sampling and Analysis, Accident Prevention, Operations. Reports include: Limited Site Investigation, Remedial Investigation, Underground Storage Tank Closure, Groundwater Monitoring, Asbestos and Lead Abatement.

Environmental Analyst

United States Postal Service, Washington, DC

2004

Managed and directed the collaborative development of the United States Postal Service National Environmental Strategy (2005-2009)

Managed and guided the development of an Environmental Management System, based on the ISO 14001 standard, at Postal headquarters, Environmental Management Policy. Authored letters, guidance materials and other documents for top Postal Executive's signatures. Provided continuous coordination and collaboration with core functional areas at Postal Service Headquarters, Areas and Districts throughout the nation Managed numerous consultants as well as a 3 million dollar consultant budget.

Environmental Compliance Specialist

United States Postal Service, Minneapolis, MN

1998 - 2005

Developed sampling plans and provided interpretations and summary of analytical data including laboratory results from air, asbestos, lead, water, soil and waste testing. Performed Environmental Assessments of properties the Postal Service proposed for

acquisition. Managed Phase I and Phase II investigations and clean ups of petroleum, asbestos and lead contaminated properties. Prepared and provided quarterly and annual monitoring reports of contaminated sites to the Minnesota Pollution control Agency as well, permit and monitoring reports to the Minnesota Department of Health. Ensured compliance at 971 Postal facilities in Minnesota and Wisconsin including maintenance of NPDES permits, air quality permits, hazardous waste generator licenses, SARA Title III tire II reports, SPCC plans, storage tank operation and maintenance plans. Implemented changes to make possible the applications for the conditional exclusion of no exposure certifications. Conducted 337 multimedia compliance reviews in 7 states and 3 EPA regions in at Postal facilities including million square foot processing plants and vehicle maintenance facilities. Developed and delivered environmental training courses to employees. Applied for and received in excess of \$370,000 in reimbursements form the State of Minnesota for remediation at regulated tank sites. Managed asbestos abatements at 208 Postal facilities in 1999 saving 1.1 million dollars in asbestos abatement costs. Managed energy saving projects at 154 Postal facilities generating over 3 million dollars in energy savings.

Pollution Control Specialist

**Minneapolis Department of Transportation, St. Paul, MN
1994-1998**

Collected samples of soil waste and waste including unknown hazardous material at existing facilities and at proposed highway construction expansion sites. Provided analysis, interpretation and made recommendations based on site conditions and analytical results. Profiled waste streams and applied waste minimization practices to reduce. Minnesota Department of Transportation hazardous waste generator requirements by 90%. Conducted business and multimedia audits of waste transport, storage and disposal companies for the State of Minnesota. Authored Minnesota Department of Transportation and Minnesota Pollution Control Agency publications and guidance documents. Planned and presented a conferences sponsored by the Minnesota Pollution Control Agency

Traffic Engineering Technician

Minneapolis Department of Transportation, St. Cloud, MN

Designed Traffic Control Plans using Computer Aided Drafting. Participated in public meetings, inspecting contractor work.

Activities:

Vice Chairman of the Sylvan Township Planning Commission
Member of the Minnesota Planning Association
Girl Scout Leader for the Girl Scouts of St. Croix Valley



Mid-America
OSHA Education Center

This is to certify that

Kimberlie Chambers

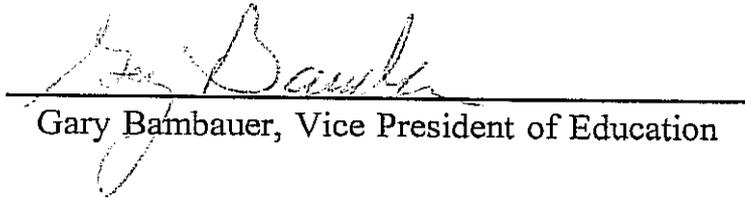
has successfully completed OSHA 510

Basic Course in Construction Safety

on this 17th day of August, 2006



Instructor



Gary Bambauer, Vice President of Education

U.S. ARMY CORPS OF ENGINEERS



PROFESSIONAL DEVELOPMENT SUPPORT CENTER
HUNTSVILLE, ALABAMA

CERTIFICATE

Kimberlie Chambers

has completed the Corps of Engineers Training Course

CONSTRUCTION QUALITY MANAGEMENT FOR CONTRACTORS

*is awarded continuing education credits as
indicated for 16 hours of organized instruction*



Given at Louisville AB (By CELR-CD-Q 08/23/06
Location Instructional District Date

Kathryn Rintoul Wilson
Facilitator

Gary J. Anderson
Chief, USACE Professional Development Support Center

THIS CERTIFICATE EXPIRES FIVE YEARS FROM DATE OF ISSUE

**Independent Quality Control Team
Peer Reviewer**

Richard Armstrong



8100 Grand Avenue, Cleveland, Ohio 44104-3110 (216)391-7700 FAX (216)391-6951
TOLL FREE WATS 800-391-7445
West Virginia Regional Office Location
240 Oliver Street-Suite 2
Saint Albans, West Virginia 25177-2074
P (304) 201-2205
F (304) 201-2206
www.mctechreadymix.com

Richard E. Armstrong

275 Thomas Road
St. Albans, WV 25177

Office: 304-201-2205
Cell: 304-932-5490

E-mail: rarmstrong@mctechreadymix.com

Objective: To obtain a professional position using my experience, ability and skills obtained throughout my career

Experience: **McTech Corp**
Project Manager
2008-Present

Project Manager for several construction projects for various Government clients including the United States Army Corp of Engineers, Huntington and Pittsburgh District and the United States Army at Fort A.P. Hill in Virginia. Duties include construction oversight, scheduling, and client relations. Projects have included:

- Lead and Asbestos Abatement at Winfield Locks and Dam, Red House, West Virginia.
- Erosion prevention by placing Type D aggregate protection on the upstream/downstream slope of the embankment at Beach City Dam in Tuscarawas County, Ohio.
- Rehabilitation of tanner gates at Fishtrap Lake Dam in Shelbiana, Kentucky.

- Road construction with 304 aggregate at Beach City Dam in Tuscarawas County, Ohio,
- Bulkhead crane replacement at London Locks and Dam in London, West Virginia
- Derrick crane replacement at Bluestone Dam in Hinton, West Virginia.
- Expansion joint repair and waterline replacement at Kinzua Dam in Warren County, Pennsylvania.
- Various other projects and duties as assigned.

Douglas Barrels, Inc.
Machinist
1990-2008

Responsibilities included all heat-treating and quality control of the metals used to craft rifle barrels, including several steps in the manufacturing of the barrels; shipping and receiving of products and materials; and provided informational tours to all visitors and customers to the facility.

H.C. Nutting Co.
Field Supervisor
1989-1990

Operated a core-drilling rig for the geo-technical engineering department of the company and represented the company in daily interaction with clients.

Esmer and Associates
Field Technician

Responsibilities included overseeing the daily construction of all aspects and phases of eleven coarse coal refuge impoundments; liaison between the company and the coal companies building the impoundments; daily communication and supervision of the employees building the impoundments; communicated all phases of the projects to OSHA and MSHA; provided daily written reports to Esmer & Associates; kept a written log of all phases of the construction; performed core-drilling, soil sampling, soil

compaction testing, water sampling, installed water monitoring stations and water decant systems for water overflow; and tested concrete for slump and made cylinders for testing.

Certifications obtained during this position were acquired for the removal and exploration of hazardous materials; to run a Troxler nuclear compaction gauge; and to obtain air samples for hazardous waste.

Education: St. Albans High Scholl, graduated 1982
West Virginia State College (University) 1982-1984

Training: 30 Hour OSHA Construction
Contractor Quality Control Certification – USACE
Asbestos Awareness Certification
Lead Awareness Certification
Scaffold Competent Person Certification
Adult First Aid and CPR

Affiliations: Scoutmaster of Boy Scout Troop 250

References: Available Upon Request



PROFESSIONAL DEVELOPMENT SUPPORT CENTER
HUNTSVILLE, ALABAMA

CERTIFICATE

Richard Armstrong

has completed the Corps of Engineers Training Course

CONSTRUCTION QUALITY MANAGEMENT FOR CONTRACTORS

is awarded continuing education credits as indicated for 16 hours of organized instruction



Certified Provider #199509
1.3 CEUs



Registered Provider #009
39 LUs



Registered Provider
13 PDHs

Given at Huntington, WV By Huntington District 03/10/09
Location Instructional District Date


Facilitator

THIS CERTIFICATE EXPIRES FIVE YEARS FROM DATE OF ISSUE


Chief, Engineering/Construction Division

APPENDIX B Letters of Authorization



TMG Services, Inc

240 Oliver Street, Suite One
St. Albans, West Virginia 25177
Voice : 304-722-6015
Data : 304-722-6017
www.tmgservicesusa.net

June 30, 2010

TO: Helen Owens

SUBJECT: Appointment of On-Site Project Manager
Long Term Monitoring / Maintenance Services for Groundwater Monitoring Wells
Plum Brook Ordinance Works
Sandusky, Ohio
Contract Number: W91237-10-C-0001

Dear Ms. Owens,

Please be informed, you are here by appointed as TMG's Project Manager for the above mentioned project.

In this role you are responsible for on-site coordination, direction, and implementation of all field activities performed under this contract. You are granted the authority to stop work at any time should a quality control or safety issue arise. As TMG's Project Manager, you are responsible for all manners of on-site supervision concerning the tasks of this project and are to ensure all work is done in accordance with the technical specifications developed for this project.

Should you have any questions, please do not hesitate to contact me at 304-722-6015.

Regards,

Rodney Bumgardner
Vice President
rbumgardner@tmgservicesusa.com

Acknowledged: Helen J. Owens

6/30/2010

Helen Owens

Date

Environmental Remediation and Consulting
Waste Management
Construction Management
General Contracting





TMG Services, Inc

240 Oliver Street, Suite One
St. Albans, West Virginia 25177

Voice : 304-722-6015

Data : 304-722-6017

www.tmgservicesusa.net

June 25, 2010

TO: James Russell

SUBJECT: Appointment of Quality Control Officer
Long Term Monitoring / Maintenance Services for Groundwater Monitoring Wells
Plum Brook Ordinance Works
Sandusky, Ohio
Contract Number: W91237-10-C-0001

Dear Mr. Russell,

Please be informed, you are here by appointed as TMG's Quality Control Officer (QCO) for the above mentioned project.

In this role you are responsible for on-site quality control for all field activities performed under this contract. You are granted the authority to stop work at any time should a quality control issue arise. As TMG's QCO, you are responsible for all manners of quality control concerning the tasks of this project and are to ensure all work is done in accordance with the technical specifications and Quality Control Plan (QCP) prepared for this project.

Should you have any questions, please do not hesitate to contact me at 304-722-6015.

Regards,

Rodney Bumgardner

Vice President

rbumgardner@tmgservicesusa.com

Acknowledged:

James Russell

6/25/10
Date

Environmental Remediation and Consulting
Waste Management
Construction Management
General Contracting



An Equal Opportunity Employer



TMG Services, Inc

240 Oliver Street, Suite One
St. Albans, West Virginia 25177

Voice : 304-722-6015

Data : 304-722-6017

www.tmgservicesusa.net

June 25, 2010

TO: Dan Cashbaugh

SUBJECT: Appointment of Site Safety and Health Officer
Long Term Monitoring / Maintenance Services for Groundwater Monitoring Wells
Plum Brook Ordinance Works
Sandusky, Ohio
Contract Number: W91237-10-C-0001

Dear Mr. Cashbaugh,

Please be informed, you are here by appointed as TMG's Site Safety and Health Officer (SSHO) for the above mentioned project.

In this role you are responsible for maintaining on-site safety and health. You are granted the authority to stop work at any time should a safety or health issue arise. As TMG's SSHO, you are responsible for all manners of safety and health concerning the tasks of this project and are to ensure all work is done in accordance with the Accident Prevention Plan (APP) and EM 385-1-1 dated September 2008.

Should you have any questions, please do not hesitate to contact me at 304-722-6015.

Regards,

Rodney Bumgardner

Vice President

rbumgardner@tmgservicesusa.com

Acknowledged:

Dan Cashbaugh

6-25-2010
Date

Environmental Remediation and Consulting
Waste Management
Construction Management
General Contracting

EPA - HSI Zone - MBE - WBE
An Equal Opportunity Employer

APPENDIX C Quality Control Documentation

Quality Control Certification

Final Quality Control Plan

Long-Term Monitoring / Maintenance Services for Groundwater Monitoring Wells Plum Brook Ordnance Works Sandusky, Ohio

Contract No. W91237-10-C-0001

Assignment

Name

Signature

Date

Senior Review

Kimberlie Bumgardner

Kimberlie Bumgardner 6/28/10

Peer Review

Richard Armstrong

Richard Armstrong 6-28-10

Comments on
Final
Quality Control Plan

Long-Term Monitoring / Maintenance Services for
Groundwater Monitoring Wells
Plum Brook Ordnance Works
Sandusky, Ohio

Contract No. W91237-10-C-0001

The following comments were provided by TMG's Independent Quality Control Team. All comments resulting from this review have been resolved and/or incorporated.

TMG IQCT Comment: Ensure that text font and size are consistent throughout the document.

TMG Response: Text font and size have been reviewed and changed as necessary.

TMG IQCT Comment: Add Dan Cashbaugh to the mowing team.

TMG Response: Mr. Cashbaugh has been added to the mowing team.

CELRH-EC-CE Review Comments on Draft QCP
PBOW LTM Support Services
Sandusky, Ohio
Contract Number W91237-10-C-0001, dated May 2010
07 June 2010

The following comments are offered from Lisa Humphreys, CELRH-EC-CE, 304-399-5953.

1. General – Throughout plan (including title and cover pages), please replace O&M (Operation & Maintenance) references with LTM (Long Term Monitoring / Maintenance). Reason being: In the FUDS program, O&M refers to Operation & Maintenance efforts for structures / systems like pump and treat systems and is a completely different phase that is funded separately than LTM efforts.

TMG Response: Concur; all O&M references have been replaced with LTM as requested.

2. Pg 3, Section 5.0 Independent QC Team – Please add email addresses to the information.

TMG Response: Concur, email addresses have been added to the IQCT information.

3. Pg 4, Section 6.0 Quality Assurance Work Plan –
 - a. Revise this title to say “Quality Control” not “Quality Assurance”. USACE performs the Quality Assurance on Contractor submittals and it’s not a requirement of the Contractor to perform internal QA. Revise within this document and all other work plans associated w/ this SOW.

TMG Response: Concur; all references to QA performed by the contractor have been revised as requested.

- b. Under Mowing and Maintenance Activities – remove “Swigart” from the sentence.

TMG Response: Concur; revision has been made as requested.

- c. Under Groundwater Level Measurements – add item #4 to say “Water levels will be electronically provided to USACE for incorporation into the various project’s groundwater investigations.

TMG Response: Concur; item #4 has been added as requested.

4. Pg 5, Organizational Chart – Should Dan Cashbaugh’s name be added to the Mowing Team and if so, please include his information in the appropriate appendix?

TMG Response: Concur, Dan Cashbaugh has been added to the mowing team and will serve as the SSHO for the project. Additionally, his resume/training information has been added to Appendix A.