Department of Energy

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APR 2 7 2017

Mr. Brian Begley
Federal Facility Agreement Manager
Division of Waste Management
Kentucky Department for Environmental Protection
300 Sower Boulevard, 2nd Floor
Frankfort, Kentucky 40601

PPPO-02-4137330-17A

Ms. Julie Corkran
Federal Facility Agreement Manager
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street
Atlanta, Georgia 30303

Dear Mr. Begley and Ms. Corkran:

TRANSMITTAL OF ERRATA PAGES AND COMPLETE CORRECTED DOCUMENTS FOR THE U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE FIRST HALF OF FISCAL YEAR 2014, PADUCAH, KENTUCKY (DOE/LX/07-1296/V1)

Reference: Letter from J. Woodard to T. Mullins, J. Tufts and A. Webb, "U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2014, Paducah, Kentucky, (DOE/LX/07-1296/V1)," (PPPO-02-2293774-14), dated April 29, 2014

Enclosed are the certified errata pages and complete corrected document (i.e., with errata pages included) for the *U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2014, Paducah, Kentucky*, DOE/LX/07-1296/V1. The enclosed errata pages have been prepared to correct reporting errors related to the volume of trichloroethene (TCE) removed from the Northwest Plume Pump-and-Treat System. The errors resulted from the application of inconsistent methodologies for calculating and compiling TCE volumes removed from the Northwest Plume. The errors were discovered during an independent assessment of the data presented in Table 2 of the report that was conducted in February 2017.

If you have any questions or require additional information, please contact me at (270) 441-6862.

Sincerely,

Tracey Duncan
Federal Facility Agreement Manager
Portsmouth/Paducah Project Office

Enclosures:

1. Certification Page
2. Errata page for FFA Semiannual Progress Report for the First Half of FY 2014
3. Errata pages for FFA Semiannual Progress Report for the First Half of FY 2014, DOE/LX/07-1296/V1—Redline
4. FFA Semiannual Progress Report for the First Half of FY 2014, DOE/LX/07-1296/V1—Complete Corrected Document

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CERTIFICATION

Document Identification: ***U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2014, Paducah, Kentucky*** **(DOE/LX/07-1296/V1)**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Fluor Federal Services, Inc.

Myrna E. Redfield, Director
Environmental Management

Date Signed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

U.S. Department of Energy

Jennifer Woodard, Paducah Site Lead
Portsmouth/Paducah Project Office

4/25/2017
Date Signed

ERRATA SHEET

U.S. Department of Energy
Paducah Gaseous Diffusion Plant
Federal Facility Agreement
Semiannual Progress Report for the
First Half of Fiscal Year 2014
Paducah, Kentucky
DOE/LX/07-1296/V1, issued April 2014

The following nine corrections should be incorporated into the document.

1. Cover Page: The cover was modified to indicate errata were issued for this report.

2. Title Page: The title page was modified to indicate errata were issued for this report on the date specified.

3. Groundwater Operable Unit, page 5, Table 2: Corrected cumulative trichloroethene (TCE) removed for Northwest Plume Pump-and-Treat and total volume for all projects.

4. Northeast Plume IRA, page 18, item C, second paragraph: Changed text from “below” to “to.”

5. Northeast Plume IRA, page 18, item C, second paragraph: Deleted text.

6. Northeast Plume IRA, page 18, Table 3: Corrected TCE values.

7. Northeast Plume IRA, page 18, item C, third paragraph: Corrected calculated average removal efficiency percentage.

8. Northwest Plume IRA, page 23, second paragraph: Deleted text.

9. Appendix B, page B-19, Figure B.17: Corrected graph for Northwest Plume TCE removed.

DOE/LX/07-1296/V1 Errata
Secondary Document

U.S. Department of Energy
Paducah Gaseous Diffusion Plant
Federal Facility Agreement
Semiannual Progress Report for the
First Half of Fiscal Year 2014
Paducah, Kentucky

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DOE/LX/07-1296/V1 Errata
Secondary Document

U.S. Department of Energy
Paducah Gaseous Diffusion Plant
Federal Facility Agreement
Semiannual Progress Report for the
First Half of Fiscal Year 2014
Paducah, Kentucky

Date Issued—April 2014

Errata Issued—April 2017

Prepared for the
U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

Prepared by
LATA Environmental Services of Kentucky, LLC
managing the
Environmental Remediation Activities at the
Paducah Gaseous Diffusion Plant
under contract DE-AC30-10CC40020

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CONTENTS

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TABLES

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ACRONYMS

ACM	asbestos-containing material
AR	Administrative Record
ATU	alternate treatment unit
BGOU	Burial Grounds Operable Unit
CAB	Citizens Advisory Board
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRP	Community Relations Plan
D&D	decontamination and decommissioning
DOE	U.S. Department of Energy
EIC	Environmental Information Center
EPA	U.S. Environmental Protection Agency
EQ	equalization
ERH	electrical resistance heating
ESD	explanation of significant differences
EW	extraction well
FFA	Federal Facility Agreement
FS	feasibility study
FY	fiscal year
GDP	gaseous diffusion plant
GWOU	Groundwater Operable Unit
IRA	interim remedial action
LATA Kentucky	LATA Environmental Services of Kentucky, LLC
MW	monitoring well
NEPCS	Northeast Plume Containment System
NTU	nephelometric turbidity unit
NWPGS	Northwest Plume Groundwater System
O&M	operation and maintenance
OU	operable unit
PGDP	Paducah Gaseous Diffusion Plant
RAWP	removal action work plan
RGA	Regional Gravel Aquifer
RI	remedial investigation
ROD	record of decision
SMP	Site Management Plan
SOU	Soils Operable Unit
SST	Swift and Staley Inc.
SWMU	solid waste management unit
SWOU	Surface Water Operable Unit
UCRS	Upper Continental Recharge System
WAG	waste area group

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

INTRODUCTION

The Paducah Gaseous Diffusion Plant (PGDP) was placed on the National Priorities List on May 31, 1994. In accordance with Section 120 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the U.S. Department of Energy (DOE) entered into a Federal Facility Agreement (FFA) with the U.S. Environmental Protection Agency (EPA) and Kentucky on February 13, 1998. The FFA established one set of consistent requirements for achieving comprehensive site remediation in accordance with the Resource Conservation and Recovery Act and CERCLA, including stakeholder involvement.

Site cleanup activities are being implemented in a sequenced approach consisting of (1) pre-shutdown scope, (2) post-shutdown scope, and (3) Comprehensive Site Operable Unit scope. The pre-shutdown scope is associated with media-specific operable units (OUs) initiated prior to shutdown of the operating gaseous diffusion plant (GDP). The source areas for the pre-GDP shutdown scope have been grouped into these media-specific OUs:

- Groundwater OU (GWOU)
- Burial Grounds OU (BGOU)
- Surface Water OU (SWOU)
- Soils OU (SOU)
- Decontamination and Decommissioning (D&D) OU

Section XXIII of the FFA requires that DOE prepare a regulatory progress report that describes the actions that DOE has taken during the previous six months to implement FFA requirements, as well as the schedules[1] of activities to be taken during the upcoming six months. Activities that have taken place after the reporting period closed are not included in this report. Projects and activities reported in this update are grouped by the media-specific OUs listed in Table 1.

Each section of this update has been divided into nine sections as follows:

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan)

II. Schedules of activities to be performed during next reporting period (including projected work/crucial phases of construction)

III. Identity and assigned tasks of DOE contractors for work to be performed during this reporting period

[1] Schedules are included for information and planning purposes only; enforceable schedules are established in the Site Management Plan (SMP).

Table 1. Operable Units and Corresponding Report Topics

Operable Unit	Project/Activities
Groundwater Operable Unit	• C-400 Interim Remedial Action (IRA) • Southwest Plume Sources Remedial Action • Dissolved-Phase Plumes Remedial Action • Northeast Plume IRA • Northwest Plume IRA
Burial Grounds Operable Unit	• Burial Grounds Operable Unit • C-749 Uranium Burial Ground Solid Waste Management Unit (SWMU) 2
Surface Water Operable Unit	• Remedial Action
Soils Operable Unit	• Remedial Action
Decontamination and Decommissioning Operable Unit	• C-410/420 Complex • C-340 Metals Reduction Plant Complex
Comprehensive Site Operable Unit*	• No Projects
Additional Reporting	• Waste Area Groups 1 and 7 • Community Relations Plan • Site Management Plan • CERCLA Waste Disposal Alternatives Evaluation • CERCLA Five-Year Review

*The Comprehensive Site Operable Unit work scope, including GDP shutdown, is defined more clearly in the fiscal year (FY) 2014 SMP.

IV. Statement of the manner and extent to which the requirements and time schedules are being met

V. Primary/Secondary Document Tracking System

A) Documents under review and/or preparation for this reporting period
B) Due dates for completion of review/modification tasks

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay)

VII. Summary of all contacts with local community, public interest groups, or state government

VIII. Changes in relevant personnel

IX. Actual cost for operation and maintenance (O&M), if appropriate

Each of the sections satisfies a reporting requirement for the FFA semiannual report or the Hazardous Waste Facility Permit and has been formatted in accordance with the template found in Appendix D of the FFA.

This report includes six appendices as follows:

- Appendix A contains Northeast and Northwest Plumes Water Withdrawal Reports for this reporting period.

- Appendix B contains Figures B.1 through B.25, as referenced in the Northeast and Northwest Plume updates, and a summary of the data associated with the CERCLA outfall for Northeast Plume.

- Appendix C contains a map depicting the monitoring well (MW) locations; a figure summarizing the trichloroethene (TCE) concentrations in these wells over time; and a summary of the C-746-K Landfill groundwater monitoring data from January 1996 through October 2013. This data currently are collected semiannually. Sampling of these MWs is outlined in the Record of Decision (ROD) for Waste Area Groups (WAGs) 1 and 7.

- Appendix D contains updates to the Administrative Record (AR) index since the last progress report. This is required by the Paducah FFA (Section XXXII.F).

- Appendix E contains a map depicting the C-400 MW location; and a summary of the C-400 groundwater MW data trending TCE and technetium-99 (Tc-99) from 2000 through December 2013. Groundwater data from January 2014 through September 2014 will be included in the next semiannual report scheduled for October 2014.

- Appendix F contains a map depicting the C-749 Uranium Burial Ground (SWMU 2) groundwater MWs and a summary of the SWMU 2 trends for TCE and Tc-99 for reporting dates 1993 through January 2014.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

GROUNDWATER OPERABLE UNIT

The scope of the GWOU includes performing investigations, conducting baseline risk assessments, evaluating removal/remedial alternatives, and selecting and implementation of actions necessary to achieve protection of human health and the environment from exposure to groundwater contamination that could result in an unacceptable risk.

Within the GWOU are these projects: C-400 IRA Phases, Southwest Plume Sources Remediation, Dissolved-Phase Plumes, Northeast Plume IRA, and Northwest Plume IRA.

The overall objective of the GWOU is to remove/mitigate ongoing sources and to remediate the groundwater to target contaminant concentrations. The most predominant contaminant of concern in the groundwater of all three plumes is TCE. Table 2 provides an overall broad picture of the TCE mass removed [TCE values may contain other volatile organic compounds (VOCs)] by various actions through March 31, 2014.

Table 2. Cumulative TCE Removed at Paducah

Source Area	Cumulative TCE Removed (gal)*
Northwest Plume Pump-and-Treat	3,017**
Northeast Plume Pump-and-Treat	284**
C-400 Six-Phase Treatability Study	1,900
C-400 Phase I	535
C-400 Phase IIa and Phase IIb	810
Dissolved-Phase Plume	N/A
Southwest Plume***	0
SWMU 4***	0
Other sources (i.e., SWMU 91, LASAGNA™)	246
Total	6,792

*Cumulative through March 31, 2014. TCE values may contain other VOCs.
**Cumulative through December 31, 2013.
***No remedial action selected/implemented to date.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

GROUNDWATER OPERABLE UNIT PROJECT: C-400 IRA

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

Phase IIa:

- Developed and issued the Page Changes *for Remedial Action Work Plan for Phase IIa of the Interim Remedial Action for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1271&D2/R3, to EPA and Kentucky on October 23, 2013. Received Kentucky and EPA approval on November 4, 2013, and December 4, 2013, respectively.

- Experienced operational problems with the steam regenerated vapor phase carbon system and unseasonably cold temperatures that led to freeze damage that resulted in system downtime through mid-January.

- Restarted the treatment system on January 14, 2014, and it has operated at better than 98% operational uptime.

- As of March 31, 2014, the average of digital temperature acquisition module readings in the target treatment volume were as follows:

  — Deep Upper Continental Recharge System (UCRS)/upper Regional Gravel Aquifer (RGA) (53 ft bgs to 63 ft bgs); ≈ 209°F

  — Middle UCRS (36 ft bgs to 46 ft bgs); ≈ 206°F

  — Upper UCRS (18 ft bgs to 28 ft bgs); ≈ 183°F

- The heating system has achieved target temperatures in the deep treatment zone below the potentiometric surface of the RGA (target at 60 ft bgs is 199°F) and above the potentiometric surface of the RGA (target at 53 ft bgs and above is 194°F).

- Recovered, as of the end of the reporting period, approximately 810 gal of VOCs from the Phase IIa treatment zone.

Phase IIb:

- Developed and issued the *Treatability Study Work Plan for Steam Injection, Groundwater Operable Unit, at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1294&D2, to EPA and Kentucky on February 18, 2014. Received Kentucky and EPA approvals on March 20, 2014, and March 21, 2013, respectively.

- Developed and issued the *Treatability Study Design, Design Drawings and Technical Specifications Package for the C-400 Interim Remedial Action Phase IIb Steam Injection Treatability Study at Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1295&D1, to EPA and Kentucky for review on March 24, 2014.

- Continued groundwater monitoring for the C-400 project required by the *Remedial Action Work Plan for the Interim Remedial Action the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0004&D2/R2. The TCE and Tc-99 groundwater monitoring trends from January 2000 through December 2013 are included as Appendix E of this report.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Continue with Phase IIa electrical resistance heating (ERH) operations to completion. Completion is forecasted to occur near the end of this reporting period.

- Hold real-time scoping meetings with EPA and Kentucky on the *Treatability Study Design, Design Drawings and Technical Specifications Package for the C-400 Interim Remedial Action Phase IIb Steam Injection Treatability Study at Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1295&D1.

- Initiate development of the D2 *Treatability Study Design, Design Drawings and Technical Specifications Package for the C-400 Interim Remedial Action Phase IIb Steam Injection Treatability Study at Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1295&D2, for submittal to EPA and Kentucky on May 27, 2014.

- Award contract for implementation of the Phase IIb Treatability Study.

- Initiate C-400 Phase IIb Treatability Study construction start by September 29, 2014.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the GWOU belongs to LATA Environmental Services of Kentucky, LLC, (LATA Kentucky) as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management services. Swift & Staley Inc., (SST) manages the AR and the Environmental Information Center (EIC).

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and schedules are being met for the GWOU C-400 phased IRA subproject, consistent with the SMP and as agreed to by the FFA parties; however, extensions on document

review and modification periods have resulted in an overall impact to the project schedule for the C-400 Phase IIb Treatability Study. In addition, while Phase IIa experienced significant operational problems with the steam regenerated vapor phase carbon system and unseasonably cold temperatures that resulted in considerable system downtime during the first part of reporting period, the system currently is operational at better than 98% operational uptime since January 14, 2014.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- *Treatability Study Work Plan for Steam Injection, Groundwater Operable Unit, at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1294&D2

- *Treatability Study Design, Design Drawings and Technical Specifications Package for the C-400 Interim Remedial Action Phase IIb Steam Injection Treatability Study at Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1295&D1

- Page Changes *for Remedial Action Work Plan for Phase IIa of the Interim Remedial Action for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1271&D2/R3

B) Due dates for completion of review/modification tasks:

- The *Treatability Study Work Plan for Steam Injection, Groundwater Operable Unit, at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1294&D2, was due to EPA and Kentucky February 18, 2014.

- The *Treatability Study Design, Design Drawings and Technical Specifications Package for the C-400 Interim Remedial Action Phase IIb Steam Injection Treatability Study at Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1295&D1, was due to EPA and Kentucky on March 24, 2014.

- The *Treatability Study Design, Design Drawings and Technical Specifications Package for the C-400 Interim Remedial Action Phase IIb Steam Injection Treatability Study at Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1295&D2, is due to EPA and Kentucky on May 27, 2014 (assumes that on-board reviews are completed as scheduled).

- The Construction Start for the C-400 Phase IIb Treatability Study is September 29, 2014.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

Phase IIa ERH batch operations were initiated on July 22, 2013, and full ERH operations were initiated on July 31, 2013. Following the July 31, 2013, ERH initiation, operational difficulties were experienced with the operation of the steam regenerated carbon adsorption skid and with integration of that skid into equipment remaining from Phase I operations. Process engineers with demonstrated experience in troubleshooting and operating vapor and water treatment systems evaluated and assisted with repairs. The ERH electrode system was operated as necessary during

the periods of treatment system downtime to minimize the loss of subsurface heat. Additionally, unseasonably cold temperatures during November and December of 2013 resulted in freeze damage, which further impacted treatment system downtime. Modifications to the steam regenerated carbon adsorption skid and freeze damage repairs were completed and the vapor system restarted on January 14, 2014, with water extraction and reinjection restarted on February 4, 2014. The system has operated at greater than 98% uptime to extract VOCs since restarting in mid-January.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site Citizens Advisory Board (CAB), FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Sampling of the C-400 wells has been incorporated into the Environmental Monitoring Program and the O&M cost is not broken out separately. O&M cost of Phase IIa was $3.5M for this reporting period.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

GROUNDWATER OPERABLE UNIT PROJECT: Southwest Plume Sources

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Received approval of the D2/R1 *Remedial Design Report In Situ Source Treatment Using Deep Soil Mixing for the Southwest Groundwater Plume Volatile Organic Compound Source at the C-747-C Oil Landfarm (Solid Waste Management Unit 1) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1276, (RDR) from Kentucky and EPA on September 26, 2013, and October 21, 2013, respectively.

- Developed and issued the D2 *Remedial Action Work Plan for In Situ Source Treatment by Deep Soil Mixing of the Southwest Groundwater Plume Volatile Organic Source at the C-747-C Oil Landfarm (Solid Waste Management Unit 1) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1287&D2, to EPA and Kentucky on December 19, 2013. Received Kentucky and EPA approval on January 8, 2014, and January 21, 2014, respectively.

- Initiated bid and award process for the SWMU 1 Deep Soil Mixing Project. Bids have been received and currently are undergoing review. Planning activities are underway for the excavation of soil prior to initiation of deep soil mixing activities.

- Held scoping discussions with EPA and Kentucky to determine the locations for further characterization of two areas of uncertainty at SWMU 1, as outlined in the Remedial Action Work Plan and RDR.

- Developed and issued the D2 *Final Characterization Report for Solid Waste Management Units 211-A and 211-B Volatile Organic Compound Sources for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1288&D2, to EPA and Kentucky review on December 10, 2013. Received Kentucky and EPA approval on December 13, 2013, and January 13, 2014.

- Developed and issued the Final Characterization Notification Letter for SWMUs 211-A and 211-B for EPA and Kentucky approval on July 10, 2013. Received Kentucky's response and acceptance of DOE's recommendation for implementation of Long-Term Monitoring for SWMUs 211-A and 211-B on December 17, 2013. Received EPA's response and recommendation for further evaluation prior to remedy selection on January 13, 2014.

- Received a request from EPA, in accordance with Section XIX of the FFA, on February 25, 2014, for modification of the Remedial Design Work Plan, so that additional work may be conducted at SWMU 211-A and 211-B. DOE reviewed EPA's request and held a clarification

call with EPA on March 25, 2014. The FFA parties mutually agreed to conduct further discussions in order to reach consensus on the scope of the additional work and further agreed to extend the time period for consideration of additional work under Section XIX of the FFA by 90-days.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Develop and submit an FFA minor modification to modify the time period for DOE's written acceptance or rejection of an additional work request for EPA and Kentucky signature by April 11, 2013.

- Continue discussions with EPA and Kentucky to jointly scope the specific details associated with EPA's request for additional work at SWMUs 211-A and 211-B.

- Provide written acceptance or rejection of EPA's additional work request to EPA and Kentucky no later than July 10, 2014.

- Continue procurement activities to support implementation of the approved remedial action at SWMU 1.

- Award subcontract for deep soil mixing at SWMU 1 and mobilize subcontractor and initiate field work at SWMU 1.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the GWOU belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky also provides programmatic and technical support, analytical services, and business management services. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and schedules are being met for the Southwest Plume sources remedial action subproject consistent with the SMP and as agreed to by the FFA parties. Development and submittal of planning documents for the Southwest Plume source areas are being met consistent with the negotiated timelines as agreed to by the FFA parties; however, EPA's request for additional work will impact the current enforceable milestone dates for submittal of the RDR and Remedial Action Work Plan for SWMUs 211-A and 211-B. Milestone modifications will be requested once the FFA parties have reached consensus on the additional work to be performed.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

FFA minor modification to extend the time period for consideration of additional work related to the *Remedial Action Work Plan for In Situ Source Treatment by Deep Soil Mixing of the Southwest Groundwater Plume Volatile Organic Source at the C-747-C Oil Landfarm (Solid Waste Management Unit 1) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1287&D2. This modification will change the time period for DOE's

written acceptance or rejection of an additional work request from 45 days to 135 days, making DOE's written response to EPA's additional work request due July 10, 2014.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

SWMU 1 Deep Soil Mixing activities will be performed immediately adjacent to a uranium hexafluoride (UF_6) cylinder yard leased to the United States Enrichment Corporation (USEC). The placement of the deep soil mixing crane next to the cylinder yard creates a potential accident scenario (e.g., crane falling over on cylinders) that is not allowed by USEC's operating certificate with the Nuclear Regulatory Commission. DOE is working with USEC to evaluate options for implementing the SWMU 1 field work without impacting USEC's operating certificate. This could result in schedule and/or cost impacts to the SWMU 1 field work.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

None.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

GROUNDWATER OPERABLE UNIT PROJECT: Dissolved-Phase Plumes

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

Developed and provided TCE and Tc-99 plume maps for calendar year 2012 to EPA and Kentucky on February 4, 2014.

II. Schedule of activities during upcoming reporting period (including projected work/crucial phases of construction):

Additional work associated with this project has been resequenced based upon agreement with the FFA managers and their respective senior managers. As a result, no additional activities are scheduled for this project during the upcoming reporting period.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the GWOU belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management services. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

Project implementation has been resequenced as described in Section II.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

None.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

None.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

None.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

GROUNDWATER OPERABLE UNIT PROJECT: Northeast Plume IRA

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

Continued the planning and development of project information to optimize the Northeast Plume IRA. As a result of USEC's discontinuing enrichment operations, the cooling tower used by the Northeast Plume IRA was no longer available after June 28, 2013. A treatment unit consistent in design with the units planned for the optimization efforts was installed during the last reporting period to support continuing the Northeast IRA operations. Construction was completed on May 30, 2013. Start-Up and testing of the installed treatment unit was completed on September 4, 2013, when routine operations of the treatment unit were initiated. The following are the other activities associated with the optimization of the Northeast Plume IRA.

- Invoked informal dispute resolution on the D2 *Remedial Action Work Plan for the Optimization of the Northeast Plume Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1280&D2, on November 12, 2013, based upon conditional concurrence received from Kentucky and EPA on September 18, 2013, and September 23, 2013. On December 13, 2013, DOE extended the informal dispute period for the Remedial Action Work Plan to January 11, 2014.

- Received approval of the *Explanation of Significant Differences to the Record of Decision for Interim Remedial Action of the Northeast Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1291&D2 (ESD), from EPA and Kentucky on August 19, 2013, and August 20, 2013, respectively. EPA and Kentucky retracted their approvals on November 12, 2013, and November 13, 2013, respectively. As a result, DOE invoked informal dispute resolution on the ESD on December 13, 2013.

- Provided a proposal for resolution of informal dispute for the Northeast Plume Optimization Project via e-mail to EPA and Kentucky on December 17, 2013.

- Consolidated and extended the period of informal dispute resolution for the D2 *Remedial Action Work Plan for the Optimization of the Northeast Plume Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1280&D2, and *Explanation of Significant Differences to the Record of Decision for Interim Remedial Action of the Northeast Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1291&D2, on January 7, 2014. Informal dispute resolution was elevated to formal on February 25, 2014. The current date for resolution of formal dispute is May 15, 2014.

During this reporting period, the Northeast Plume Containment System (NEPCS) treated 38,322,591 gal of contaminated groundwater and achieved an operational efficiency of 75%

(operational efficiency was decreased due to a transfer pump failure followed by failure of the new replacement pump). The average system treatment rate for the reporting period was 146 gal/min and was calculated assuming 100% operational uptime. Operational online efficiencies for the reporting period were as follows: October 2013, 99%; November 2013, 94%; December 2013, 13%; January 2014, 50%; February 2014, 100%; and March 2014, 100%.

A) Process Operations:

The NEPCS consists of two extraction wells (EWs), an underground equalization (EQ) tank, transfer piping, a new alternate treatment unit (ATU) for air stripping and suspended solids removal, and MW network.

B) Process Testing:

Operation of the NEPCS began February 28, 1997. As of March 31, 2014, the NEPCS has processed a total of approximately 1,382,041,717 gal of water. The monthly withdrawal volumes this reporting period are presented in Appendix A, Table A.1, of this report. This table includes a summary of the withdrawn water volumes and average daily rates.

C) NEPCS Influent, Effluent, and Extraction Well Testing:

Due to sample analysis time and the data assessment process, the analytical data included in this report lags operational data by three months. This report presents analytical data from July through December 2013.

Influent sample results, compared to the effluent (cooling tower shower) sample results, indicated that TCE was effectively removed to the operational goal of 5 micrograms/liter (µg/L). The influent flow is a composite from two EWs. Influent TCE analytical data from 1997 through the end of December 2013 are presented in Appendix B. Environmental samples were collected monthly from the treatment system influent and effluent for the period of July through December 2013. High, low, and average influent and effluent TCE concentrations for these months are presented in Table 3.

Table 3. TCE Concentrations for Northeast Plume

	TCE (µg/L)		
	High	**Low**	**Average**
Influent (EQ Tank)	140	96	119
Effluent (CERCLA Outfall)*	10	1	5

As presented in Table 3, the NEPCS continued to remove TCE effectively. The system operated with an average removal efficiency of approximately 95.8% for TCE.

The EWs were sampled quarterly during this reporting period. The results of the sampling showed no significant change in TCE levels since the last reporting period. Extraction well EW331 had an average TCE concentration of 110 µg/L, while EW332 had an average concentration of 111 µg/L.

Treated groundwater for the Northeast Plume is discharged to a CERCLA outfall, and data associated with the CERCLA outfall are included as part of Appendix B of this report.

D) Maintenance Activities:

Routine Maintenance Activities:

Daily, monthly, quarterly, and annual routine maintenance activities were conducted in accordance with the *Paducah Plume Operations Maintenance, Calibration, and Testing Plan*, PAD-SO-0046, January 2013.

Instances of downtime occurred during the reporting period relating to mechanical failures, routine maintenance, and calibration of system components, weather, and testing of the new ATU.

Nonroutine Maintenance Activities:

During testing of air damper controls on the ATU, the system shut down several times for a total of 6.5 hours of down time on October 22 and 23, 2013.

On November 13, 2013, at 0900 hours, the Northeast Plume was shut down to fix a leaking pipe on the C-614 Pad. The piping was repaired and operations resumed on November 13, 2013, at 1345 hours.

On November 17, 2013, at 1600 hours the Northeast Plume shut down due to loss of power from a tornado. Associated rainfall and a lack of power to pump flooded vaults did not allow the system be restarted until November 19, at 0800 hours.

On November 24, 2013, at 1000 hours the Northeast Plume shut down due to a failed motor saver. The system was restarted on one pump at 130 gpm at 1000 hours on November 25, 2013. The system continued to operate on one pump until December 3, 2013.

On December 3, 2013, while checking a tripping well pump and installing a new motor saver, maintenance noticed the concrete pad at C-614 was vibrating and noise was coming from the equalization tank. While maintenance staff was present, the transfer pump shut down and would not restart. On December 20, 2013, a pump and motor change out occurred. The new motor would not start. On December 23, 2013, troubleshooting identified that the new transfer pump was shorting and continued to blow fuses. The system was restarted at 1120 hours on January 16, 2014. An additional, new spare pump and motor were ordered and received.

On February 3, 2014, while performing morning checks, EW332 was found off at 0800 hours. The EW would not restart. The system continued to operate on one well until 0930 hours on February 6, 2014, when maintenance was performed and the well was restarted.

E) Effectiveness Monitoring—Monitoring Well Results:

Figure B.1, included in Appendix B, shows locations of the MWs and EWs. Figure B.2 shows the location of the MWs with the top of McNairy topography. Figures B.3 shows system influent TCE concentrations, and Figure B.4 includes a summary of the TCE in the

Northeast Plume EWs. Figure B.5 shows the estimated cumulative amount of TCE removed since the NEPCS began operations in 1997. Figures B.6 through B.10 presented in Appendix B, show TCE concentrations and Tc-99 activities in MWs downgradient and upgradient and the EWs.

MW292 is located approximately 1,200 ft upgradient of the pumping wells to provide an early detection point for Tc-99 migration. During the third and fourth quarters of calendar year 2013, Tc-99 activity at MW292 was 36 and 33 pCi/L, respectively.

F) Modification of the NEPCS Operations or Configuration:

None.

II. Schedule of activities during upcoming reporting period (including projected work/crucial phases of construction):

- Continue with negotiations to resolve the FFA formal dispute associated with the D2 *Remedial Action Work Plan for the Optimization of the Northeast Plume Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1280&D2, and *Explanation of Significant Differences to the Record of Decision for Interim Remedial Action of the Northeast Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1291&D2, by May 15, 2014. Once the dispute is resolved, the following activities will be performed.
  - Complete engineering design of the optimized IRA extraction and treatment system.
  - Initiate fieldwork for drilling of new optimized EW.
  - Complete and issue the D2/R1 Remedial Action Work Plan and D2/R1 ESD in accordance with the terms of the formal dispute resolution.
  - Initiate treatment unit and appurtenant equipment construction at off-site and on-site locations.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the NEPCS belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky also provides programmatic and technical support, analytical services, and business management services. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The effluent concentration goal of 5 µg/L for TCE was met during the reporting period. The NEPCS remained operational 75% of the time during this reporting period. This decrease in operational efficiency was due to the failure of the transfer pump at C-614 and the additional failure of the spare pump upon installation.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- D2 *Remedial Action Work Plan for the Optimization of the Northeast Plume Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1280&D2

- Proposal for resolution of informal dispute on the D2 *Remedial Action Work Plan for the Optimization of the Northeast Plume Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1280&D2

- *Explanation of Significant Differences to the Record of Decision for Interim Remedial Action of the Northeast Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1291&D2

B) Due dates for completion of review/modification tasks:

- Resolution of FFA formal dispute associated with the D2 *Remedial Action Work Plan for the Optimization of the Northeast Plume Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1280&D2, and *Explanation of Significant Differences to the Record of Decision for Interim Remedial Action of the Northeast Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1291&D2, by May 15, 2014.

- Complete and issue the D2/R1 Remedial Action Work Plan and D2/R1 ESD in accordance with the terms of the formal dispute resolution memorandum of agreement.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

Dispute resolution has resulted in cost and schedule delays. Current enforceable milestones have been stayed and will be reestablished in accordance with the terms of the dispute resolution.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Actual costs for O&M of the Northwest/Northeast Plume facilities are tracked jointly. The total operating cost for the reporting period was $289,599.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

GROUNDWATER OPERABLE UNIT PROJECT: Northwest Plume IRA

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- During this reporting period, the Northwest Plume Groundwater System (NWPGS) treated 55,458,475 gal of contaminated groundwater with an average monthly operational efficiency of 99%. The average system treatment rate for the reporting period was 212 gal/min and was calculated assuming 100% operational uptime. Operational efficiencies for the reporting period were as follows: October 2013, 98%; November 2013, 89%; December 2013, 98%; January 2014, 100%; February 2014, 100%; March 2014, 100%.

A) Process Operations:

The NWPGS previously consisted of two EW fields (north and south with each field having two EWs), for a total of four wells, underground pipeline, treatment facility, and MW network. In August 2010, an optimized system with two new EWs (EW232 and EW233) became operational in the south well field near the north fence line of PGDP. The north well field EWs (EW228 and EW229) were removed from service in August 2010, and the new EWs were placed into operation at that time. EW230 and EW231, also located in the south well field, are kept in standby mode and may be returned to service, if needed.

B) Process Testing:

Operation of the NWPGS began on August 28, 1995. As of March 31, 2014, the NWPGS has processed a total of 1,890,093,637 gal of water. The monthly withdrawal volumes for the reporting period are presented in Appendix A, Table A.2, of this report. This table includes a summary of the withdrawn water volumes and average daily rates.

C) NWPGS Influent, Effluent, and Extraction Well Testing:

Due to sample analysis time and the data assessment process, the analytical data included in this report lags operational data by three months. This report presents analytical data from July through December 2013.

Figure B.11, included in Appendix B, shows locations of the Northwest Plume MWs. Figure B.12 shows the location of the MWs with the top of McNairy topography. Influent TCE and Tc-99 analytical data are presented in Appendix B on Figures B.13 and B.14. Figures B.15 and B.16 includes a summary of the TCE and Tc-99 concentrations of the effluent versus time at the Northwest Treatment System. Figure B.17 shows the cumulative estimated amount of TCE removed since the Northwest Plume system began operations in

1995. The influent sample results, compared to the NWPGS effluent results, indicated that the NWPGS continues to effectively remove TCE and Tc-99.

High, low, and average influent and effluent TCE and Tc-99 concentrations from July through December 2013 are presented in Table 4.

Table 4. TCE and Tc-99 Concentrations for Northwest Plume

	TCE (µg/L)			Tc-99 (pCi/L)		
	High	**Low**	**Average**	**High**	**Low**	**Average**
Influent	2,300	1,600	2,033	335	268	303
Effluent	3.4	1.7	2.6	64.9	31.4	44.8

The treatment system influent, a composite from two EWs, was sampled monthly. The effluent was sampled weekly. These sampling frequencies were conducted in accordance with the revised O&M Plan for the Northwest Plume Groundwater System IRA D4/R5, which DOE submitted on September 13, 2010, and was approved in correspondence from Kentucky on October 4, 2010, with concurrence from EPA on October 8, 2010. As presented in Table 4, the NWPGS continued to remove TCE and Tc-99 effectively. The system operated with an average removal efficiency of 99.9% for TCE and 85.2% for Tc-99.

The average TCE effluent concentration for this reporting period was 2.6 µg/L, which is less than the treatment goal of 5 µg/L. The average Tc-99 effluent value was 44.8 pCi/L, which is less than the operational goal of 900 pCi/L, during the reporting period.

High, low, and average sample results for this reporting period at the EWs are shown in Table 5. EW228 and EW229 were removed from operation in August 2010. These wells no longer are tied physically into the Northwest Plume Treatment Facility and no longer are sampled. EW230 and EW231 also were removed from operation in August 2010. These wells, however, are sampled only when they are operated (these wells were not operated during this reporting period). EW232 and EW233 were sampled quarterly in accordance with the revised O&M Plan for the Northwest Plume.

Table 5. TCE and Tc-99 Concentrations for Northwest Plume EWs

	TCE (µg/L)			Tc-99 (pCi/L)		
	High	**Low**	**Average**	**High**	**Low**	**Average**
EW232	600	410	505	178	107	142
EW233	3,900	2,900	3,267	561	437	496

D) Treatment Media:

Ion Exchange Resins:

The NWPGS is equipped with four ion exchange columns used for the removal of Tc-99. Purolite A-520-E resin is used in the columns, which are arranged in a lead/lag configuration on two parallel skids. No resin changes were required during this reporting period.

Activated Carbon Media:

The NWPGS is equipped with two carbon columns containing granular activated carbon for adsorption of volatile organic compounds from the vapor-phase effluent of the air stripper unit. The carbon in each column is replaced routinely. The carbon in both columns was replaced during the last reporting period on November 15, 2013, with new and recycled carbon. The next carbon exchange is planned for April 2014.

E) Maintenance Activities:

Routine Maintenance Activities:

Daily, monthly, quarterly, and annual routine maintenance activities were conducted in accordance with the *Paducah Plume Operations Maintenance, Calibration, and Testing Plan,* PAD-SO-0046, January 2013. Instances of minor downtime occurred during the reporting period relating to power outages, maintenance, and calibration of the system. Carbon will be changed out in the treatment system on April 2014.

Nonroutine Maintenance Activities:

On October 29, 2013, at 2000 hours, the Northwest Plume shut down and would not restart. On October 30, 2013, troubleshooting identified a power supply for the sand filter controller had failed. The new power supply was installed and the system was restarted on October 30, 2013, at 1430 hours. The system was down a total of 18.5 hours.

On November 14, 2013, at 0730 hours the Northwest Plume was shut down to perform a carbon change out on Friday, November 15, 2013. Carbon change out for the Northwest Plume was completed on November 18, 2013, at 1500 hours.

On December 7, 2013, at 2200 hours the Northwest Plume shut down due to a low volume alarm on the air stripper. No problem was found when the system was restarted on December 8, 2013, at 0530 hours.

On December 28, 2013, at 2400 hours, the Northwest Plume shut down due to a high-high alarm on the settling tank. Upon inspection of the settling tank on December 29, 2013, at 1000 hours, the tank was found to be full when the tank level was lowered and the system restarted. No reason was found for the tank filling to capacity at that time.

On February 24, 2014, at 0445 hours, the Northwest Plume was shut down due to a high-high alarm on the settling tank. The tank was found to be full the next morning at 0800 hours when the tank level was lowered and the system restarted. The tank had filled following a sand filter backwash on February 20, 2014. One of the four automatic backwash valves had not closed properly. The tank was changed to a continuous discharge position preventing a

reoccurrence. New valves were ordered to replace each of the backwash valves. The tank remains in a continuous discharge/recycle condition to accommodate the valve that leaks. Maintenance staff will replace the valves when they are delivered to the project.

F) Effectiveness Monitoring—Monitoring Well Results:

Figures B.18 through B.25 presented in Appendix B, show TCE and Tc-99 concentrations in MWs at the south and north fields of the Northwest Plume and the EWs, respectively. These graphs show all data since monitoring began in 1995 and indicate the position of the MWs relative to the extraction.

G) Modification of the NWPGS Operations or Configuration:

EW232 and EW233 became operational on August 24, 2010. These EWs replace the previous EWs for recovery of TCE-contaminated groundwater from the Northwest Plume. Each of the new wells has a design capacity of 220 gal per minute and is operated full time at approximately 110–115 gpm. EW228 and EW229 have been disconnected from the Northwest Plume Treatment facility. EW230 and EW231 are kept in standby mode and can be operated, as needed.

II. Schedules of activities during upcoming reporting period (including projected work/crucial phases of construction):

The project team will continue to conduct and document the necessary tasks required for equipment maintenance, calibration, and operation, as specified in the *Operations and Maintenance Plan for the Northwest Plume Groundwater System Interim Remedial Action at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1253&D4/R5.

Hydraulic and chemical effectiveness monitoring, as described in the D4/R5 O&M Plan for the Northwest Plume Groundwater System IRA, was initiated during the reporting period.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the NWPGS belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition LATA Kentucky provides programmatic and technical support, analytical services, and business management services. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The average NWPGS water effluent concentrations met the operational goals of 5 µg/L for TCE and 900 pCi/L for Tc-99 during the reporting period. The NWPGS has remained operational 99% of the time during this reporting period.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

None.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, and reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Actual costs for O&M of the Northwest/Northeast Plume facilities are tracked jointly. The total operating cost for the reporting period was $289,599.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

BURIAL GROUNDS OPERABLE UNIT

The scope of the BGOU includes a remedial investigation (RI), baseline human health risk assessment, evaluation of remedial alternatives, remedy selection, and implementation of actions, as necessary, for protection of human health and the environment for the following burial grounds: C-749 (SWMU 2); C-404 (SWMU 3); C-747/C-748-B (SWMU 4); C-746-F (SWMU 5); C-747-B (SWMU 6); C-747-A (SWMUs 7 and 30), which includes the area beneath C-747-A (SWMU 12); the residential/inert borrow area (SWMU 145); and the C-746-S&T Landfills (SWMUs 9 and 10, respectively).

This section also includes information on the sampling activities being conducted at the C-749 Uranium Burial Ground, as required in the *Record of Decision for Interim Remedial Action at Solid Waste Management Units 2 and 3 of Waste Area Group 22 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, signed in 1995.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

BURIAL GROUNDS OPERABLE UNIT PROJECT: C-749 (SWMU 2); C-404 (SWMU 3); C-747/C-748-B (SWMU 4); C-746-F (SWMU 5); C-747-B (SWMU 6); C-747-A (SWMUs 7 and 30), which includes the area beneath C-747-A (SWMU 12); the Residential/Inert Borrow Area (SWMU 145); and the C-746-S&T Landfills (SWMUs 9 and 10)

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Continued activities to resolve comments received from Kentucky and EPA on the *Feasibility Study for Solid Waste Management Units* 2, 3, 7, and 30 *of the Burial Grounds Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1274&D1 (FS), and continued development of the D2 report. On March 28, 2014, DOE verbally requested an extension for submittal of the D2 FS report, and EPA and Kentucky verbally approved a 15-day extension.

- The draft-final *Proposed Plan for the Burial Grounds Operable Unit Source Areas at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky: Solid Waste Management Units 5 and 6*, DOE/LX/07-1275&D2, previously was submitted to EPA and Kentucky on July 17, 2013. EPA and Kentucky requested a 45-day extension to complete review of the D2 document. Kentucky requested an additional 60-day extension on September 30, 2013. EPA issued conditional approval on October 17, 2013. Kentucky requested an additional 30-day extension on November 27, 2013. DOE, EPA and Kentucky met with the CAB on November 20, 2014. An FFA Senior Managers Meeting was held November 21, 2013. Kentucky requested an additional 30-day extension on December 19, 2013. Kentucky requested an additional extension (i.e., "the Division requests that its current deadline for responding to the D2 Proposed Plan for SWMUs 5 & 6 be further extended until such time as the Waste Disposal Alternatives project Record of Decision has been approved") on January 27, 2014; EPA issued a response to Kentucky's request stating they would "agree to a 60-day extension" on February 19, 2014.

- Continued collection of monthly water level data from UCRS wells and initiated development of work control activities for Phase IV and Phase V of the *Addendum to the Work Plan for the Burial Grounds Operable Unit Remedial Investigation/Feasibility Study at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Solid Waste Management Unit 4 Sampling and Analysis Plan*, DOE/OR/07-2179&D2/A2/R2.

- Conducted a series of teleconferences with EPA and Kentucky to transition from Phase III to Phase IV for SWMU 4. EPA and Kentucky requested additional Phase III soil borings and sampling in letters dated February 4, 2014, and February 7, 2014, respectively. DOE agreed to the additional sampling, which was requested by the EPA and Kentucky in a letter dated March 24, 2014.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Complete development of the *Feasibility Study for Solid Waste Management Units 2, 3, 7, and 30 of the Burial Grounds Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1274&D1, and submit to EPA and Kentucky.

- Coordinate with EPA and Kentucky to obtain approval and determine a path forward (including a timeline) on the draft-final D2 *Proposed Plan for the Burial Grounds Operable Unit Source Areas at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky: Solid Waste Management Units 5 and 6*, DOE/LX/07-1275&D2, which was submitted to EPA and Kentucky on July 17, 2014.

- Develop ROD and Land Use Control Implementation Plan for SWMUs 5 and 6 for submittal to EPA and Kentucky by June 25, 2014.

- Update the appropriate documentation to include the additional borings and samples request by EPA and Kentucky and initiate associated field activities for Phase III (SWMU 4).

- Continue monthly water lever recordings in the MWs installed during Phase II (SWMU 4).

- Work associated with SWMUs 2, 3, 7, 9, 10, 30, and 145 of the BGOU has been resequenced based upon agreement with the FFA managers and their respective senior managers. With the exception of finalization of the FS for SWMUs 2, 3, 7, and 30, no activities are scheduled for these SWMUs during the upcoming reporting period (assumes FS approval).

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of BGOU belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky also provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC, and maintains existing burial ground caps.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

- The requirements and time schedules are being met; however, extensions on document review and modification periods have resulted in an overall impact to the project schedule for the BGOU.

- Work associated with SWMUs 2, 3, 7, 9, 10, 30, and 145 of the BGOU has been resequenced based upon agreement with the FFA managers and their respective senior managers; it no longer falls within the five-year window. With the exception of finalization of the FS for SWMUs 2, 3, 7, and 30, no activities are scheduled for these SWMUs during the upcoming reporting period (assumes FS approval).

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation during this reporting period:

- *Feasibility Study for Solid Waste Management Units 2, 3, 7, and 30 of the Burial Grounds Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1274&D2

- *Proposed Plan for the Burial Grounds Operable Unit Source Areas at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky: Solid Waste Management Units 5 and 6*, DOE/LX/07-1275&D2

- *Record of Decision for Solid Waste Management Units 5 and 6 of the Burial Grounds Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1282&D1

- *Land Use Control Implementation Plan for Solid Waste Management Units 5 and 6 of the Burial Grounds Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1293&D1

B) Due dates for completion of review/modification tasks:

- Approval, conditional approval, or disapproval on the D2 *Proposed Plan for the Burial Grounds Operable Unit Source Areas at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky: Solid Waste Management Units 5 and 6,* DOE/LX/07-1275&D2, is due from Kentucky no later than April 28, 2014.

- The *Record of Decision for Solid Waste Management Units 5 and 6 of the Burial Grounds Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1282&D1, is due to EPA and Kentucky June 25, 2014.

- The D1 Remedial Design Work Plan for Solid Waste Management Units 5 and 6 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, is due to EPA and Kentucky July 25, 2014.

- The *Feasibility Study for Solid Waste Management Units 2, 3, 7, and 30 of the Burial Grounds Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1274&D2, is due to EPA and Kentucky no later than April 15, 2014.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

None. [Refer to the following section of this report for information regarding O&M costs for the IRA at the C-749 Uranium Burial Ground (SWMU 2).]

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

BURIAL GROUNDS OPERABLE UNIT PROJECT: C-749 Uranium Burial Ground (SWMU 2)

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

Continued groundwater monitoring at the C-749 Uranium Burial Ground, as required by the *Record of Decision for Interim Remedial Action at Solid Waste Management Unit 2 and 3 of Waste Area Group 22 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/06-1351&D1. The results for the groundwater monitoring from May 1993, through January 2014, have been included as part of this report. The results of the groundwater monitoring trends from 1996 through January 2014 are presented in Appendix F.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

Groundwater monitoring will continue at the C-749 Uranium Burial Ground, as required by the ROD.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of C-749 Uranium Burial Ground belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC, and maintains existing burial ground cover.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation during this reporting period:

None.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

None.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Sampling of the C-749 Uranium Burial Ground has been incorporated into the Environmental Monitoring Program. O&M cost is approximately $1,000.00 per year.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

SURFACE WATER OPERABLE UNIT

The SWOU includes the Surface Water Removal Action and Surface Water Remedial Action projects. Additionally, O&M is performed on North-South Diversion Ditch Sections 1 and 2 and institutional controls, as required by the *Operations and Maintenance Plan for Sections 1 and 2 of the North-South Diversion Ditch*, DOE/OR/07-2057&D2, and *Operations and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-1904&D1; and O&M activities for the C-613 Basin are maintained in accordance with the *Operations and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/OR/07-2044&D1/R4, respectively. Inspection reports are filed in the Document Management Center, managed by SST. The estimated annual cost of this O&M is $66,000.

Per the *Operations and Maintenance Plan for the Northwest Storm Water Control Facility at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/OR/07-2044&D1/R4, the relationship of turbidity to total suspended solids is compared on a quarterly basis. An update to the existing linear regression model was performed in April 2014, and the current maximum discharge limit for turbidity is 104 nephelometric turbidity units (NTU), with a 30-day average not to exceed 45 NTU.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

SURFACE WATER OPERABLE UNIT PROJECT: Remedial Action

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Continued to revise the *Operation and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2600&D1, in conjunction with the CERCLA Five-Year Review.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Finalize and issue the *Operation and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2600&D1, once the CERCLA Five-Year Review has been approved. Approval of the CERCLA Five-Year Review is expected in FY 2014.

- Additional work associated with this project has been resequenced based upon agreement with the FFA managers and their respective senior managers. As a result, no additional activities are scheduled for this project during the upcoming reporting period.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the SWOU Remedial Action belongs to LATA Kentucky as the DOE prime remediation contractor at the PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

Additional work associated with this project has been resequenced based upon agreement with the FFA managers and their respective senior managers; it no longer falls within the five-year window. No activities are scheduled for this project during the upcoming reporting period.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The *Operation and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2600&D1, has been under development during this reporting period.

B) Due dates for completion of review/modification tasks:

- The *Operation and Maintenance Plan for the Surface Water Operable Unit at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-2600&D1, is scheduled to receive regulatory approval after submittal of the D1 CERCLA Five-Year Review.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

Additional work associated with this project has been resequenced based upon agreement with the FFA managers and their respective senior managers; it no longer falls within the five-year window.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

None.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

SOILS OPERABLE UNIT

The SOU is being implemented in a phased approach (i.e., pre-GDP shutdown and post-GDP shutdown). The SOU consists of 86 SWMUs/areas of concern; three inactive facilities [C-218 Firing Range (SWMU 181), C-403 Neutralization Tank (SWMU 40), C-410-B HF Neutralization Lagoon (SWMU 19)]; and the soil/rubble areas that have been identified to date. Prior to GDP shutdown, the SOU will focus on accessible plant surface soils (ground surface to 10 ft below ground surface and 16 ft below ground surface in the vicinity of pipelines) not associated with PGDP operations. Following PGDP shutdown, slabs and underlying soils associated with facilities that have undergone D&D will be addressed as part of a subsequent action (e.g., post-GDP shutdown for the Soils and Slabs OU). Actions to address a total of 20 of the 86 SWMUs have been deferred to Soils and Slabs OU. Of the remaining 66 SWMUs, 50 will be addressed as part of the Soils OU FS. The remaining 16 SWMUs will be evaluated further under a subsequent Soils OU RI and addressed by a subsequent Soils OU FS.

Due to interferences from ongoing USEC operations, implementation of the response action pursuant to an approved Action Memorandum for SWMU 40 will occur after GDP shutdown (*Action Memorandum for Soils Operable Unit Inactive Facilities*, DOE/LX/07-0121&D2/R1). Implementation of the SWMU 40 response will be reinstituted with development, review, and approval of a Remedial Action Work Plan.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

SOILS OPERABLE UNIT PROJECT: Remedial Action

I. Work performed during this reporting period (including summaries of findings and any deviations from the work plan):

- Initiated scoping meetings with the FFA parties for the Phase II Soils OU Remedial Investigation.
- Initiated scoping meetings with the FFA parties for the Sitewide Evaluation.
- Initiated revisions of SWMU Assessment Reports for SWMU 99, SWMU 225, and SWMU 474, as agreed to by the FFA parties during comment resolution of the D1 *Soils Operable Unit Remedial Investigation Report at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0358&D1.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Finalize work scope with the FFA parties for the Phase II Soils OU Remedial Investigation and initiate development of the work plan addendum.
- Finalize work scope with the FFA parties for the Sitewide Evaluation and initiate development of the work plan.
- Finalize the SWMU Assessment Reports for SWMU 99, SWMU 225, and SWMU 474.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of the SOU RI belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

Based on additional funding received by DOE for FY 2014, this project is being accelerated. The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

SWMU Assessment Reports for SWMU 99, SWMU 225, and SWMU 474 have been under development during this reporting period.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

None.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

DECONTAMINATION AND DECOMMISSIONING OPERABLE UNIT

The D&D OU will employ the CERCLA removal action process to decommission excess buildings (i.e., inactive with no reuse potential) that have a known or potential release of contamination to the environment. Consistent with the 1995 DOE and EPA Memorandum, *Policy on Decommissioning DOE Facilities under CERCLA*, DOE will employ the CERCLA Non-Time-Critical Removal Action framework when appropriate. In instances where facilities do not have a known or potential release, DOE may decommission the facility as a non-CERCLA demolition action using National Environmental Policy Act documentation.

The remaining scope of the D&D OU prior to PGDP shutdown consists of the following inactive DOE facilities:

- C-410/420 Feed Plant Complex
- C-340 Metals Reduction Complex

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

D&D OPERABLE UNIT: C-410/420 Complex

The scope of this project includes D&D of the C-410 UF_6 Feed Plant, using CERCLA removal actions implemented in accordance with the FFA and consistent with the 1995 EPA and DOE Joint Policy Statement on decommissioning activities.

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan) for the C-410/420 Complex:

- All UF_6 Cold Traps currently are in storage inside C-746-Q and are routinely inspected as part of DOE's surveillance and maintenance program.
- Completed removal of fluorine lines in Zone 39 that became accessible following removal of the mezzanine.
- Completed placement of flowable fill in Zone 54.
- Initiated placement of flowable fill in Zone 53.
- Completed ACM wire in conduit removal in Zones 8 and 11.
- Completed removal of transite containing interior panels in Zones 42 and 43.
- Completed abatement of previously inaccessible asbestos insulation on piping above the mezzanine.
- Completed rerouting of power to support mezzanine removal in Zones 22, 23, 24, 26, 27, and 28.

II. Schedules of activities to be performed during next reporting period (including projected work/crucial phases of construction):

- Complete mezzanine removal in Zones 22.
- Complete removal of loose paint, vacuuming, fixative application, and final survey in preparation for demolition.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of D&D belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and

technical support, analytical services, and business management. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

None.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

Provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, congressional staff, and D&D Tri-Party Working Group.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

None.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

D&D OPERABLE UNIT:
C-340 Metals Reduction Plant Complex

The scope of this project includes demolition of the C-340 Uranium Metals Reduction Complex, using CERCLA removal actions implemented in accordance with the FFA and consistent with the 1995 EPA and DOE Joint Policy Statement on decommissioning activities.

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan) for the C-340 Complex:

- Submitted the D1 *Removal Action Report for the C-340 Metals Reduction Plant at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1286&D1, to EPA and Kentucky on December 10, 2013

- Received comments on the D1 *Removal Action Report for the C-340 Metals Reduction Plant at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1286&D1, from EPA on February 26, 2014, and from Kentucky on March 11, 2014, and initiated resolution of comments.

II. Schedules of activities to be performed during next reporting period (including projected work/crucial phases of construction):

Finalize and issue the D2 *Removal Action Report for the C-340 Metals Reduction Plant at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1286&D2, to EPA and Kentucky no later than April 25, 2014.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of D&D belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- D1 *Removal Action Report for the C-340 Metals Reduction Plant at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1286&D1, has been under review during this reporting period.

- D2 *Removal Action Report for the C-340 Metals Reduction Plant at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1286&D2, has been under development during this reporting period.

B) Due dates for completion of review/modification tasks:

- The D2 *Removal Action Report for the C-340 Metals Reduction Plant at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* DOE/LX/07-1286&D2, is due to EPA and Kentucky no later than April 25, 2014.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

Provided routine updates on the subproject to the Paducah Site CAB, FFA managers, local elected officials, congressional staff, and D&D Tri-Party Working Group.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

None.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

COMPREHENSIVE SITE OPERABLE UNIT

There were no reportable activities for the Comprehensive Site Operable Unit during this reporting period.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

ADDITIONAL REPORTING

Presented in this section are updates for WAGs 1 and 7 (C-746-K Landfill, TCE Spill Sites, Underground Storage Tanks, and Kentucky Ordnance Works sites), the Community Relations Plan (CRP), the SMP, CERCLA Waste Disposal Alternatives Evaluation, and CERCLA Five-Year Review.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

PROJECT: WAGs 1 and 7 (C-746-K Landfill, TCE Spill Sites, Underground Storage Tanks, and Kentucky Ordnance Works Sites)

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

Continued surface water and groundwater monitoring around the C-746-K Landfill and in Bayou Creek, as required by the *Record of Decision for Waste Area Groups 1 and 7 at PGDP, Paducah, Kentucky,* DOE/OR/06-1470&D3. WAGs 1 and 7 ROD requires these data to be submitted semiannually. The results of the groundwater monitoring data from January 1995 through October 2013 are presented graphically in Appendix C.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

Surface water and groundwater monitoring will continue around C-746-K Landfill and in Bayou Creek, as required by the ROD. This monitoring is conducted and reported in accordance with other PGDP programs, such as the Groundwater Protection Program, Environmental Monitoring Program, and Kentucky Pollutant Discharge Elimination System Permit.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the day-to-day operations of WAGs 1 and 7 belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky also provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

None.

B) Due dates for completion of review/modification tasks:

None.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

None.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Sampling of the surface water for the C-746-K Landfill has been incorporated into the Environmental Monitoring Program. O&M cost is not broken out separately.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

PROJECT: Community Relations Plan

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Continue to work with EPA to obtain approval of revision 8 of the *Community Relations Plan under the Federal Facility Agreement at the U.S. Department of Energy Paducah Gaseous Diffusion Plant*, DOE/OR/07-2099&D2/R8, issued to EPA and Kentucky on July 11, 2013. Kentucky approved revision 8 of the CRP on August 8, 2013.

- Received EPA approval of revision 8 of the CRP on October 22, 2013.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

None.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the maintenance of the CRP belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. SST manages the AR and the EIC.

The FFA parties agreed to revise and submit the CRP for review and approval on a biannual basis (i.e., status of major projects in Chapter 2, Appendix A—Key Contacts for the PGDP and Appendix B—Public Involvement History). Revision 9 to the CRP is due in July 2015.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

The requirements and time schedules are being met.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

The *Community Relations Plan under the Federal Facility Agreement at the U.S. Department of Energy Paducah Gaseous Diffusion Plant,* DOE/OR/07-2099&D2/R8, has been under review during this reporting period.

B) Due dates for completion of review/modification tasks:

- Revision 9 of the CRP is due to EPA and Kentucky no later than July 1, 2015.
- Comments of Revision 8 of the CRP are due to DOE with 90 days of the document's issuance.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Not applicable.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

PROJECT: Site Management Plan

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Developed and submitted the D1 *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision Fiscal Year (FY) 2014*, DOE/LX/07-1292&D1, to EPA and Kentucky on December 5, 2013. It should be noted that while the FFA requires that DOE submit an annual SMP to EPA and Kentucky by November 15th of each year, as a result of the partial government shutdown, the FFA Managers agreed to extend the submittal date for the SMP to December 6, 2013.

- DOE received comments on the D1 *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision Fiscal Year (FY) 2014,* DOE/LX/07-1292&D1, from Kentucky and EPA on January 3, 2014, and January 21, 2014, respectively.

- The FFA parties held clarification and comment resolution meetings on January 23, 2014, and January 29, 2014, and the D2 *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision Fiscal Year (FY) 2014,* DOE/LX/07-1292&D2, was submitted to EPA and Kentucky for review on February 4, 2014.

- The FY 2014 SMP was approved by EPA and Kentucky on February 24, 2014, and February 25, 2014, respectively.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

DOE will initiate discussions for the development of the FY 2015 D1 SMP.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the maintenance of the SMP belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

FFA Section XVIII requires submittal of the SMP by November 15 of each year. As a result of government shutdown, the submittal date for the FY 2014 SMP has been extended to December 6, 2013.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The D1 FY 2014 SMP has been under development and EPA and Kentucky review during this reporting period.
- The D2 FY 2014 SMP was under development and EPA and Kentucky review during this reporting period.

B) Due dates for completion of review/modification tasks:

- D1 FY 2015 SMP is due to EPA and Kentucky no later than November 15, 2014.
- Comments on the D1 FY 2015 SMP are due to DOE within 30 days of the document's being issued or December 15, 2014.
- D2 FY 2014 SMP, if required, is due within 15 days of receipt of regulatory comments on the D1 SMP.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

The scoping of the FY 2015 SMP may be impacted by the return of PGDP to DOE.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Not applicable.

FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

PROJECT: CERCLA Waste Disposal Alternatives Evaluation

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Continued development of the D1 *Proposed Plan for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1279&D1.

- Received conditional approval of the D2 *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2, from Kentucky and EPA on October 23, 2013, and March 18, 2014, respectively.

- Received conditional approval of the D2 *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2, from EPA on March 18, 2014.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Develop and submit the D1 *Proposed Plan for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1279&D1, to EPA and Kentucky for review by May 9, 2014.

- Conduct a Public Information Workshop upon finalization and approval of the RI/FS Report. DOE is co-sponsoring the workshop with the Paducah CAB and partnering with Kentucky and EPA. The purpose of the workshop is to summarize the content of the RI/FS Report and solicit feedback.

- Continue to evaluate EPA and Kentucky conditional concurrence and either accept the conditions or invoke informal dispute resolution by April 18, 2014.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the CERCLA waste disposal evaluation belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

While the requirements and time schedules are being met, extensions on document review and modification periods have resulted in an overall impact to the project schedule. EPA and Kentucky comments on the D2 *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2, were due on August 24, 2014. EPA and Kentucky requested multiple extensions for review of the D2 *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2, during this reporting period. Conditional approval of the D2 *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2, was received from Kentucky and EPA on October 23, 2013, and March 19, 2014, respectively. DOE will continue to evaluate EPA and Kentucky conditional concurrence and either accept the conditions or invoke informal dispute resolution by April 18, 2014.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The D2 *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2, has been under review during this reporting period.

- The D1 *Proposed Plan for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1279&D1, has been under development during this reporting period.

B) Due dates for completion of review/modification tasks:

- The D2/R1 *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2/R1, is due to EPA and Kentucky no later than April 18, 2014. DOE will continue to evaluate EPA and Kentucky conditional concurrence and either accept the conditions and issue the D2/R1 or invoke informal dispute resolution by April 18, 2014.

- D1 *Proposed Plan for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1279&D1, is due to EPA and Kentucky no later than May 9, 2014.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

Should the FFA parties enter into dispute resolution, the project will experience cost and schedule delays and current enforceable milestones will be adjusted as necessary.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Not applicable.

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FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2014

Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2013–3/31/2014

PROJECT: CERCLA Five-Year Review

I. Work performed during the reporting period (including summaries of findings and any deviations from the work plan):

- Received comments from Kentucky and EPA on the D1 *Five-Year Review for Remedial Actions at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1289&D1, on December 16, 2013, and December 20, 2013, respectively, and initiated resolution of comments.

- Initiated development of the D2 *Five-Year Review for Remedial Actions at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1289&D2, for submittal to Kentucky and EPA no later than April 3, 2014.

II. Schedules of activities to be performed during the next reporting period (including projected work/crucial phases of construction):

- Finalize and submit the D2 *Five-Year Review for Remedial Actions at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1289&D2, to EPA and Kentucky no later than April 3, 2014.

III. Identity and assigned tasks of DOE contractors for work to be performed for this project:

Responsibility for the CERCLA Five-Year Review belongs to LATA Kentucky as the DOE prime remediation contractor at PGDP. In addition, LATA Kentucky provides programmatic and technical support, analytical services, and business management. SST manages the AR and the EIC.

IV. Statement of the manner and extent to which the requirements and time schedules are being met:

This Five-Year Review encompasses the remedial actions that DOE has taken under the OUs identified at the Paducah Site, plus the Water Policy removal action, Surface Water Interim Corrective Measures, and Surface Water On-Site Sediment Removal. It covers activities associated with response actions from January 2008 through December 2012. The last CERCLA Five-Year Review at the Paducah Site was conducted in 2008 for the period January 2003 through December 2007. While the requirements and time schedules are being met, extensions on document review and modification periods have occurred.

V. Primary/Secondary Document Tracking System:

A) Documents under review and/or preparation for this reporting period:

- The D2 *Five-Year Review for Remedial Actions at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1289&D2, has been under development and EPA and Kentucky review during this reporting period.

B) Due dates for completion of review/modification tasks:

- The D2 *Five-Year Review for Remedial Actions at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-1289&D2, is due to EPA and Kentucky no later than April 3, 2014.

- EPA and Kentucky responses to the D2 Five-Year Review are due to DOE within 30 days of the document's issuance or May 3, 2014.

VI. Anticipated problems/delays (provide summary of problems, schedule, reason for delay, and actions taken to prevent or mitigate delay):

None.

VII. Summary of all contacts with local community, public interest groups, or state government:

DOE provided routine updates on the subproject to the Paducah Site CAB, FFA managers, FFA senior managers, local elected officials, and congressional staff.

VIII. Changes in relevant personnel:

None.

IX. Actual cost for O&M, if appropriate:

Not applicable.

APPENDIX A

NORTHEAST AND NORTHWEST PLUME WATER WITHDRAWAL REPORTS

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Table A.1. Nortwest Plume Containment System
Water Withdrawal Reporting Form (Gallons of Water Pumped)

Day	October 2013	November 2013	December 2013	January 2014	February 2014	March 2014
1	253,800	278,095	141,391	0	197,725	303,300
2	268,700	278,095	141,391	0	197,725	303,300
3	256,850	278,095	174,800	0	197,725	303,300
4	256,850	292,120	0	0	192,300	303,300
5	256,850	252,600	0	0	176,000	328,300
6	256,850	281,200	0	0	177,400	307,000
7	271,100	273,700	0	0	315,050	311,475
8	242,000	273,700	0	0	315,050	311,475
9	250,500	273,700	0	0	315,050	311,475
10	277,575	273,700	0	0	315,050	311,475
11	277,575	279,600	0	0	313,600	379,200
12	277,575	271,000	0	0	315,500	270,100
13	277,575	203,900	0	0	311,040	289,800
14	264,200	226,050	0	0	314,115	299,100
15	274,700	226,050	0	0	314,115	299,100
16	266,300	226,050	0	399,300	314,115	299,100
17	273,725	226,050	0	302,380	314,115	299,100
18	273,725	0	0	302,380	448,800	322,500
19	273,725	264,500	0	302,380	171,400	361,200
20	273,725	284,200	0	302,380	310,400	261,800
21	274,400	278,191	0	302,380	313,975	319,150
22	224,800	278,191	0	306,700	313,975	319,150
23	269,100	278,191	0	316,200	313,975	319,150
24	256,850	278,191	0	308,225	313,975	319,150
25	256,850	141,391	0	308,225	387,900	311,600
26	256,850	141,391	0	308,225	252,800	324,600
27	256,850	141,391	0	308,225	381,200	388,400
28	272,300	141,391	0	366,000	303,300	298,825
29	282,600	141,391	0	295,500		298,825
30	269,300	141,391	0	314,100		298,825
31	278,095		0	197,725		298,825
Monthly Total	8,221,895	6,923,514	457,582	4,940,325	8,107,375	9,671,900
*Daily Average	265,222	238,742	152,527	308,770	289,549	311,997
Days water pumped	31	29	3	16	28	31

*Value based on number of days water was pumped

Table A.2. Northwest Plume Groundwater System
Water Withdrawal Reporting Form

Day	October 2013	November 2013	December 2013	January 2014	February 2014	March 2014
1	318,340	322,938	318,435	636,660	320,390	315,344
2	322,280	322,938	318,435	235,732	320,390	315,344
3	319,275	322,938	314,710	235,732	320,390	315,344
4	319,275	315,010	323,460	235,732	331,075	315,344
5	319,275	284,440	324,640	235,732	311,835	370,760
6	319,275	358,800	135,653	235,732	315,480	439,210
7	321,960	318,523	135,653	278,348	320,103	276,313
8	313,690	318,523	135,653	252,780	320,103	276,313
9	320,840	318,523	135,653	439,650	320,103	276,313
10	321,410	318,523	341,380	302,265	320,103	276,313
11	321,410	319,640	327,580	302,265	322,080	383,420
12	321,410	316,600	298,360	302,265	321,680	273,200
13	321,410	322,420	333,385	302,265	321,010	309,900
14	318,550	0	333,385	329,520	319,510	319,460
15	321,030	0	333,385	315,950	319,510	319,460
16	318,970	0	333,385	417,256	319,510	319,460
17	319,843	0	330,940	300,451	319,510	319,460
18	319,843	214,390	322,510	300,451	314,030	316,020
19	319,843	313,410	332,870	300,451	317,160	321,600
20	319,843	279,660	313,715	300,451	321,900	289,740
21	321,270	318,435	313,715	300,451	300,103	322,983
22	309,190	318,435	313,715	319,360	300,103	322,983
23	322,390	318,435	313,715	321,090	300,103	322,983
24	317,055	318,435	302,571	318,975	300,103	322,983
25	317,055	318,435	302,571	318,975	444,680	314,905
26	317,055	318,435	302,571	318,975	232,470	329,665
27	317,055	318,435	302,571	318,975	351,540	326,190
28	307,580	318,435	302,571	314,350	315,344	319,663
29	151,560	318,435	302,571	324,260		319,663
30	212,290	318,435	302,571	322,910		319,663
31	322,938		302,950	320,390		319,663
Monthly Total	9,613,208	8,151,618	9,105,279	9,758,400	8,940,314	9,889,656
*Daily Average	310,103	313,524	293,719	314,787	319,297	319,021
Days water pumped	31	26	31	31	28	31

*Value based on number of days water was pumped

APPENDIX B

NORTHEAST PLUME AND NORTHWEST PLUME GRAPHS AND MAPS FIGURES B.1 THROUGH B.25

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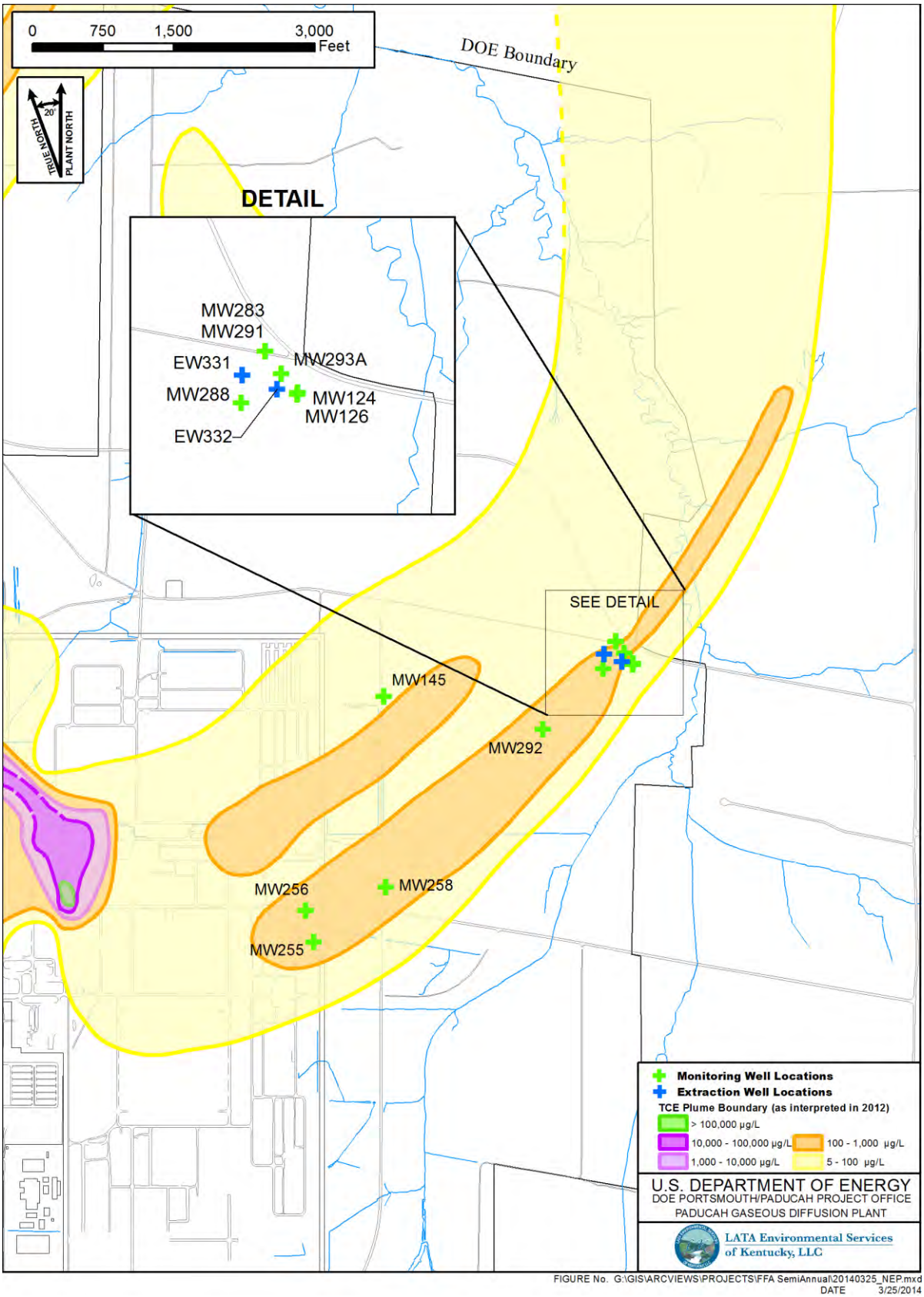


Figure B.1. Northeast Plume Groundwater Wells and Extraction Wells

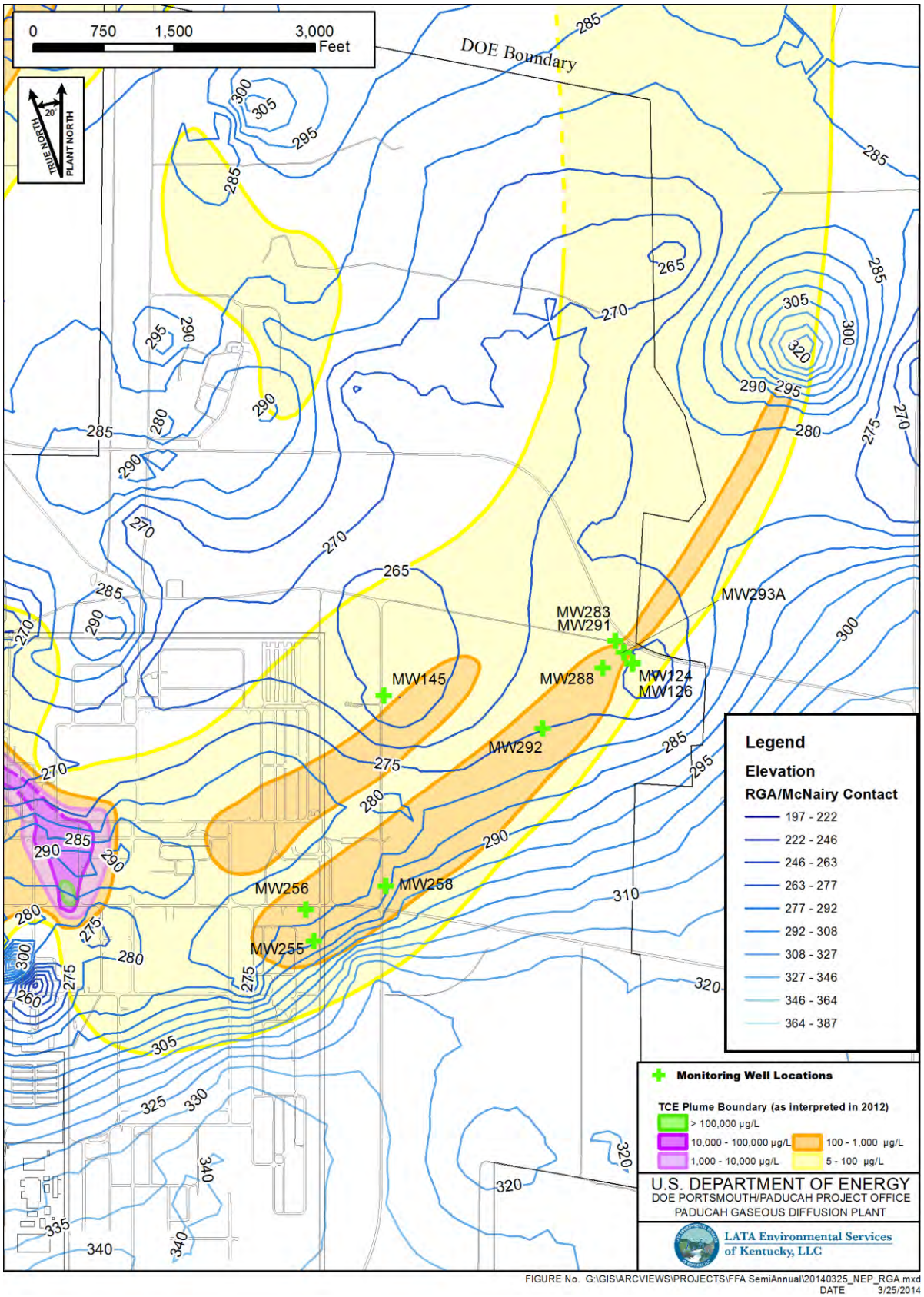
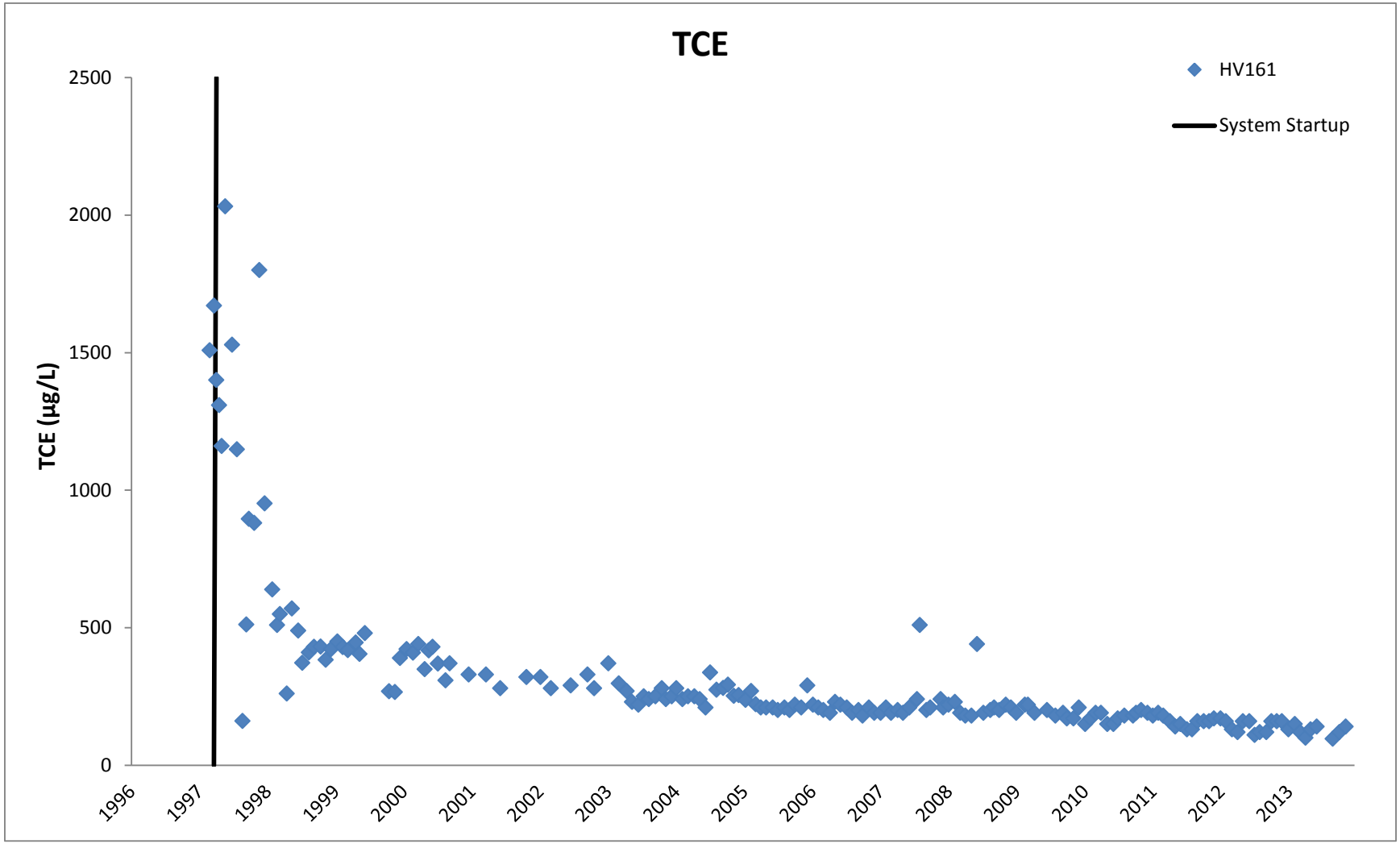
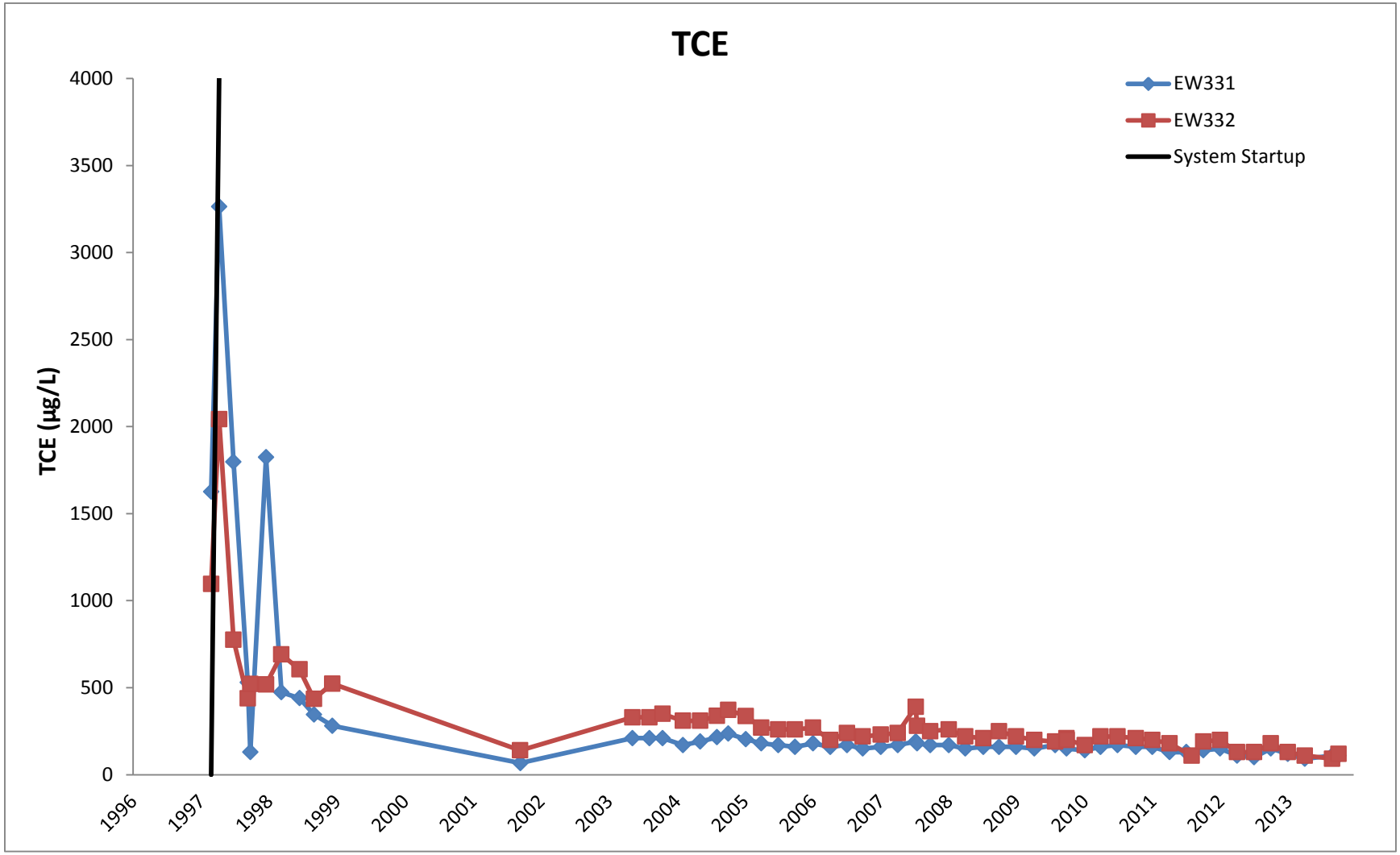


Figure B.2. Northeast Plume with McNairy Topography



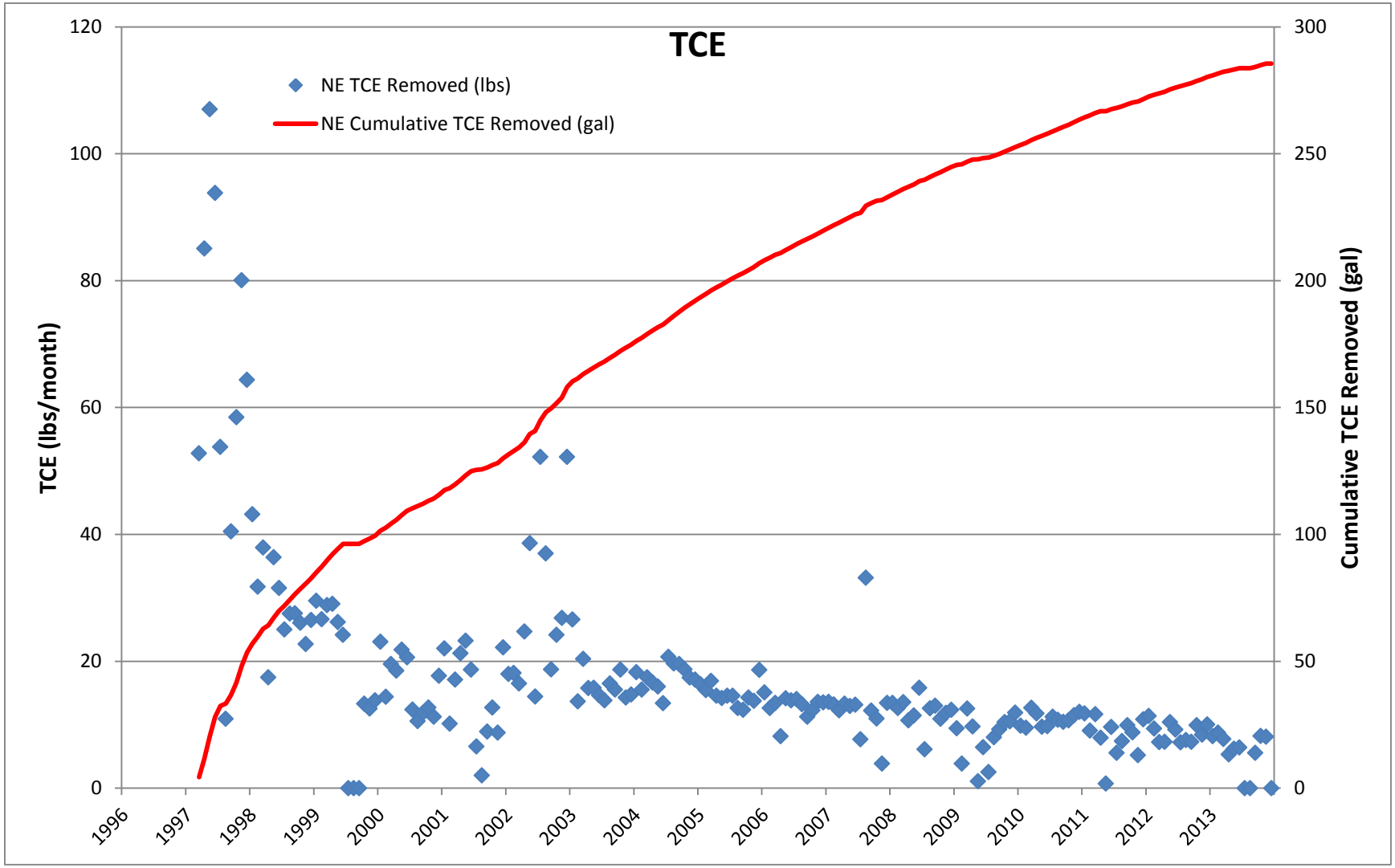
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.3. Northeast Plume Containment System Influent TCE Concentrations



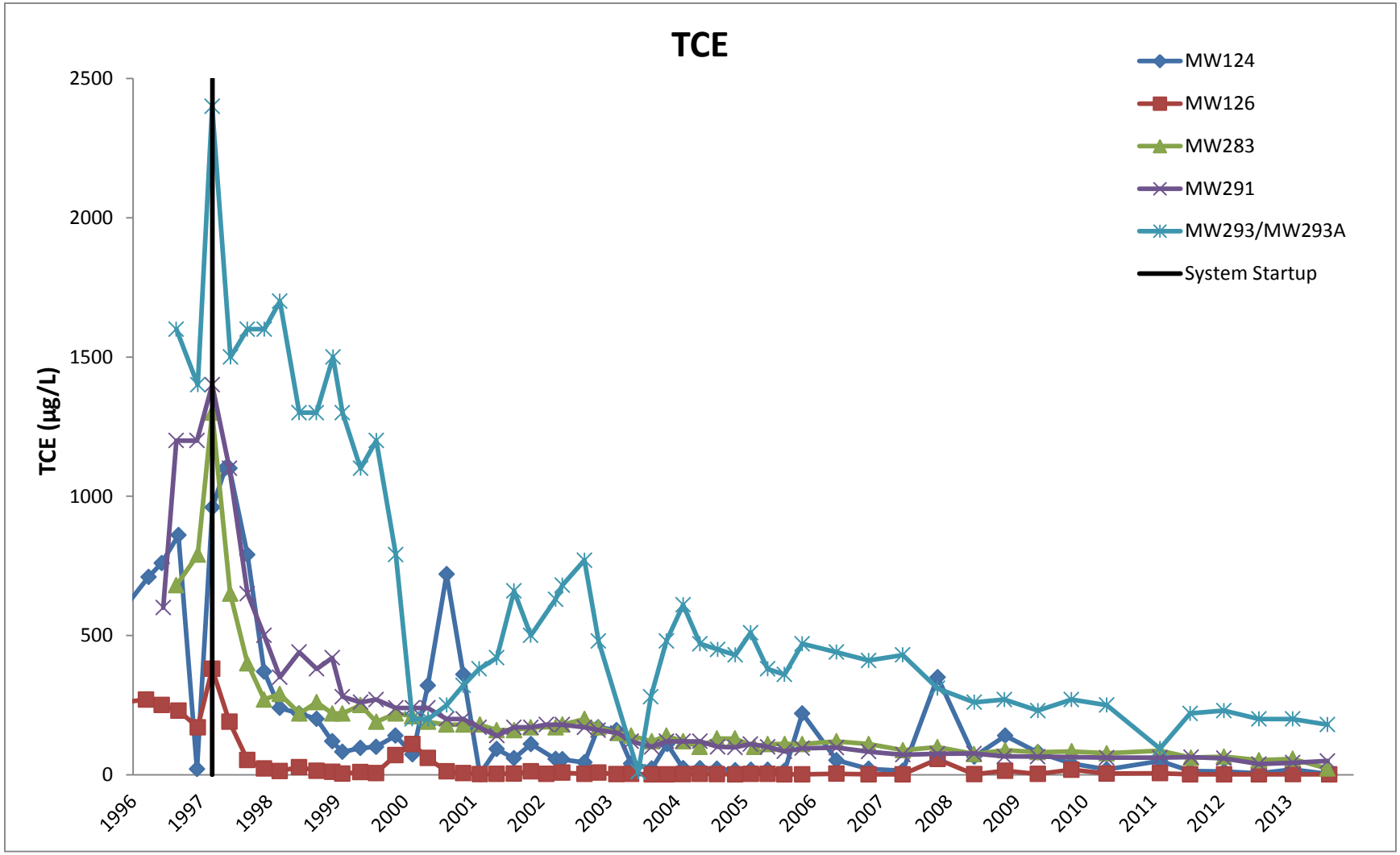
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.4. Northeast Plume—TCE Concentrations in Extraction Wells



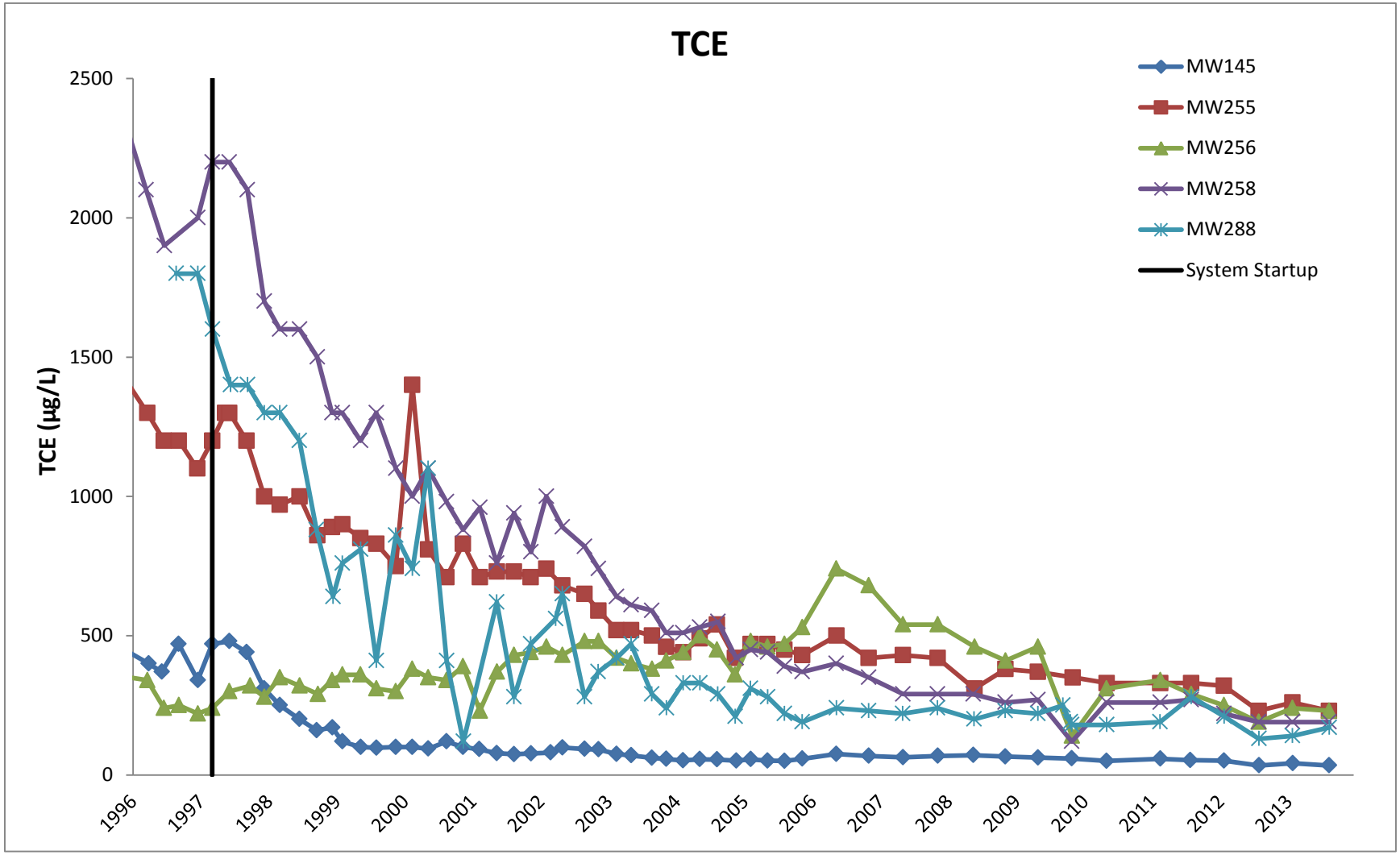
NOTE: Data rejected by validation or assessment are included on the graph.

Figure B.5. Northeast Plume Containment System TCE Removed



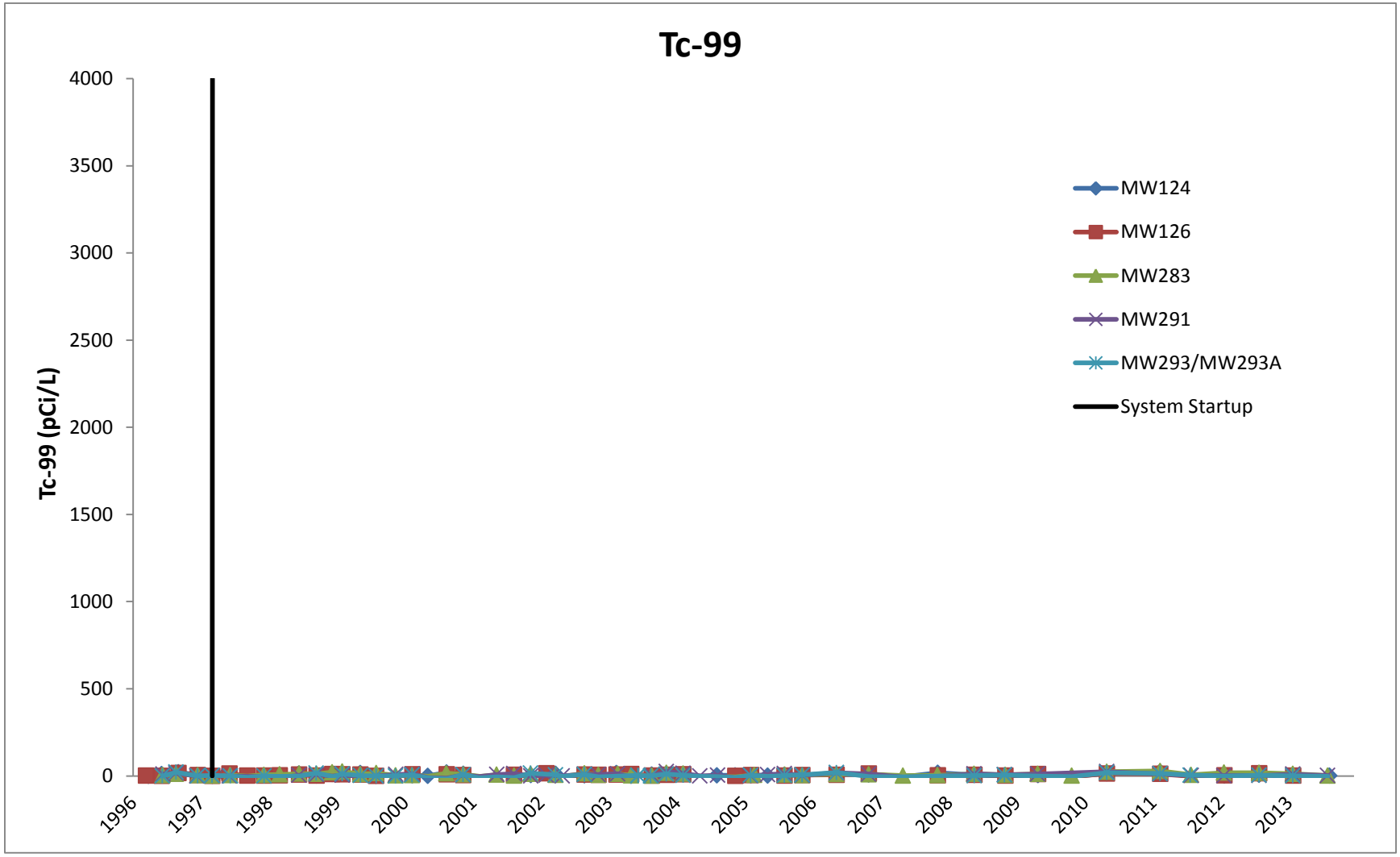
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.6. Northeast Plume—TCE Concentrations in Downgradient Wells



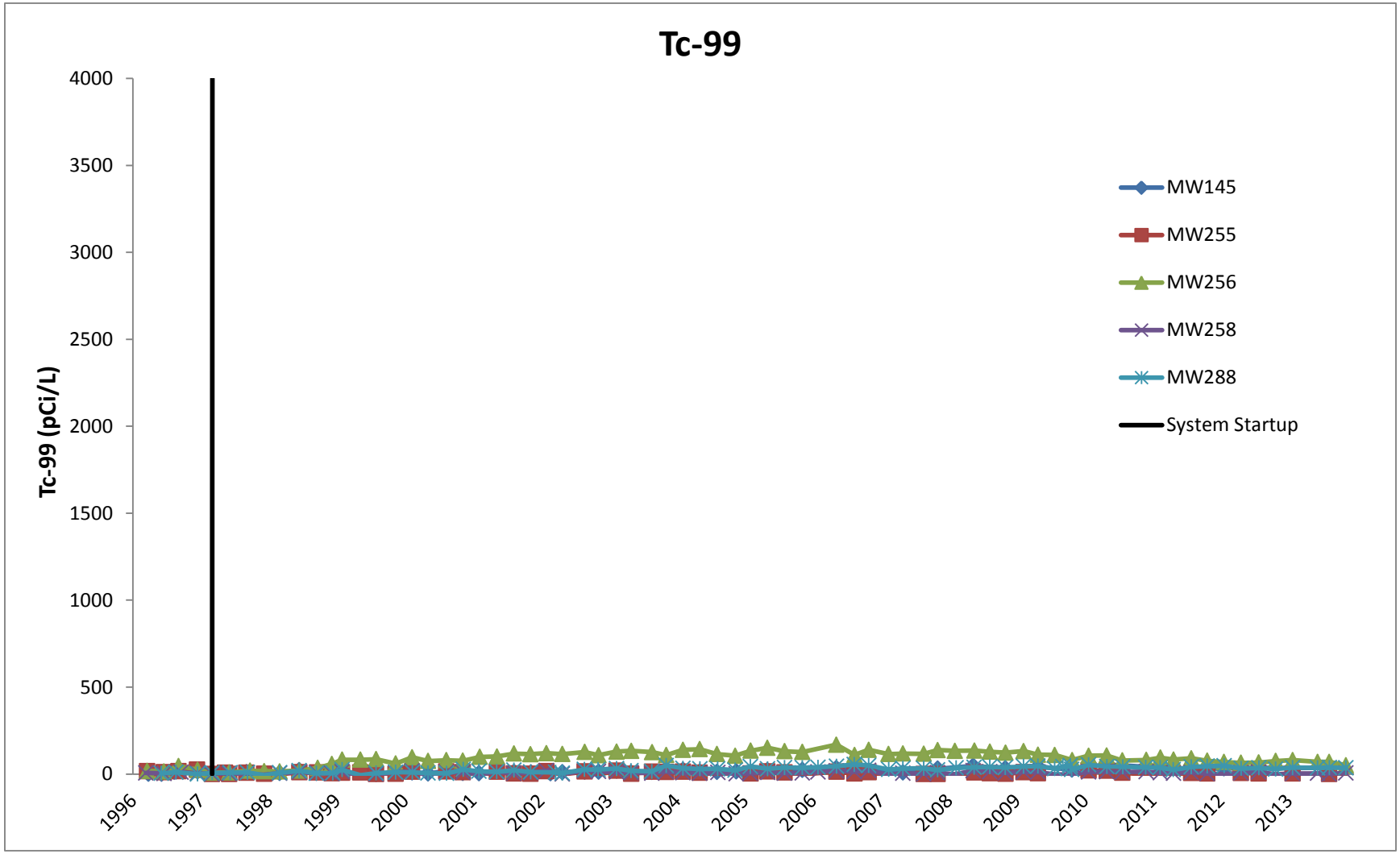
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.7. Northeast Plume—TCE Concentrations in Upgradient Wells



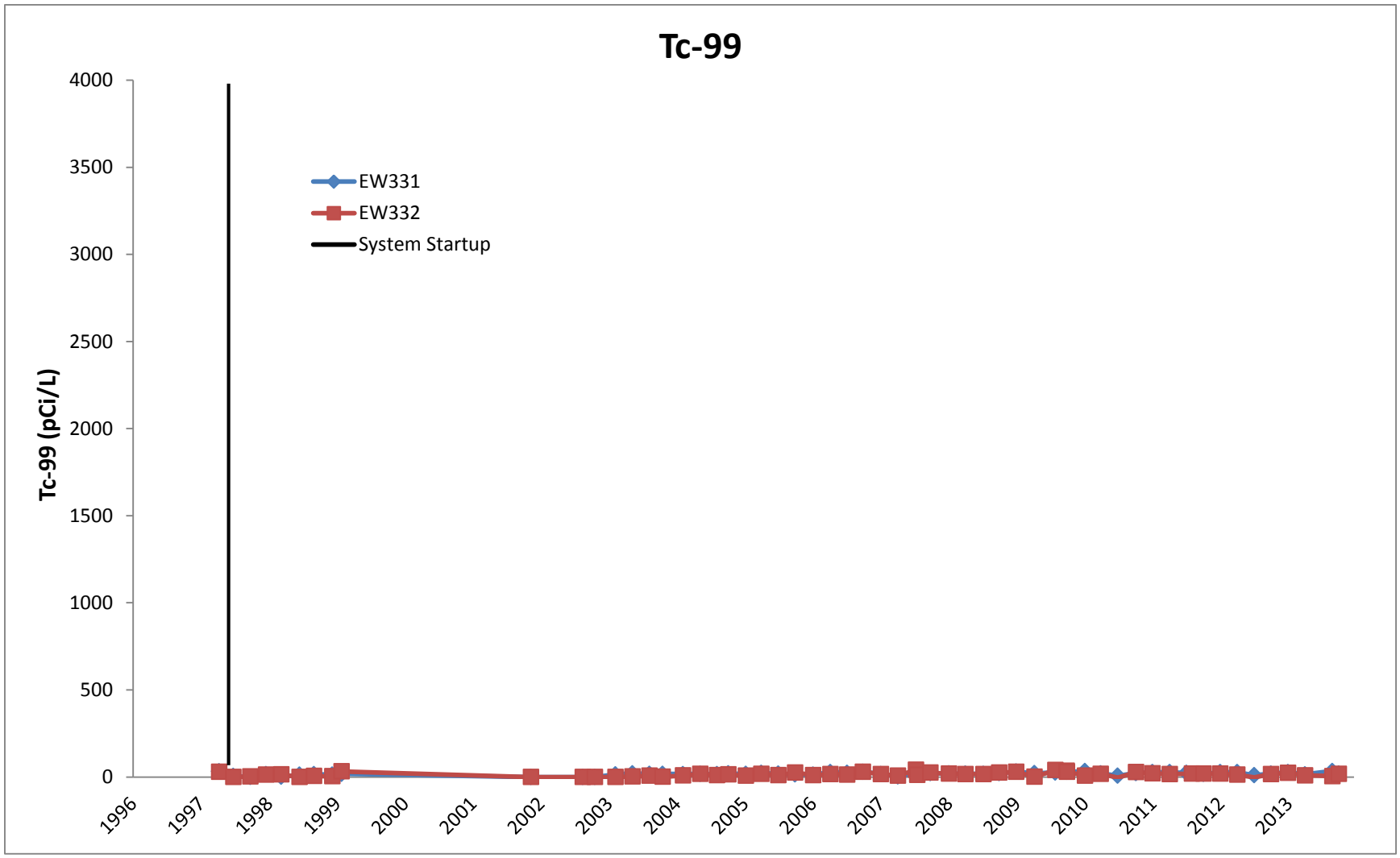
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.8. Northeast Plume—Tc-99 Activities in Downgradient Wells



NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.9. Northeast Plume—Tc-99 Activities in Upgradient Wells



NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.10. Northeast Plume—Tc-99 Activities in Extraction Wells

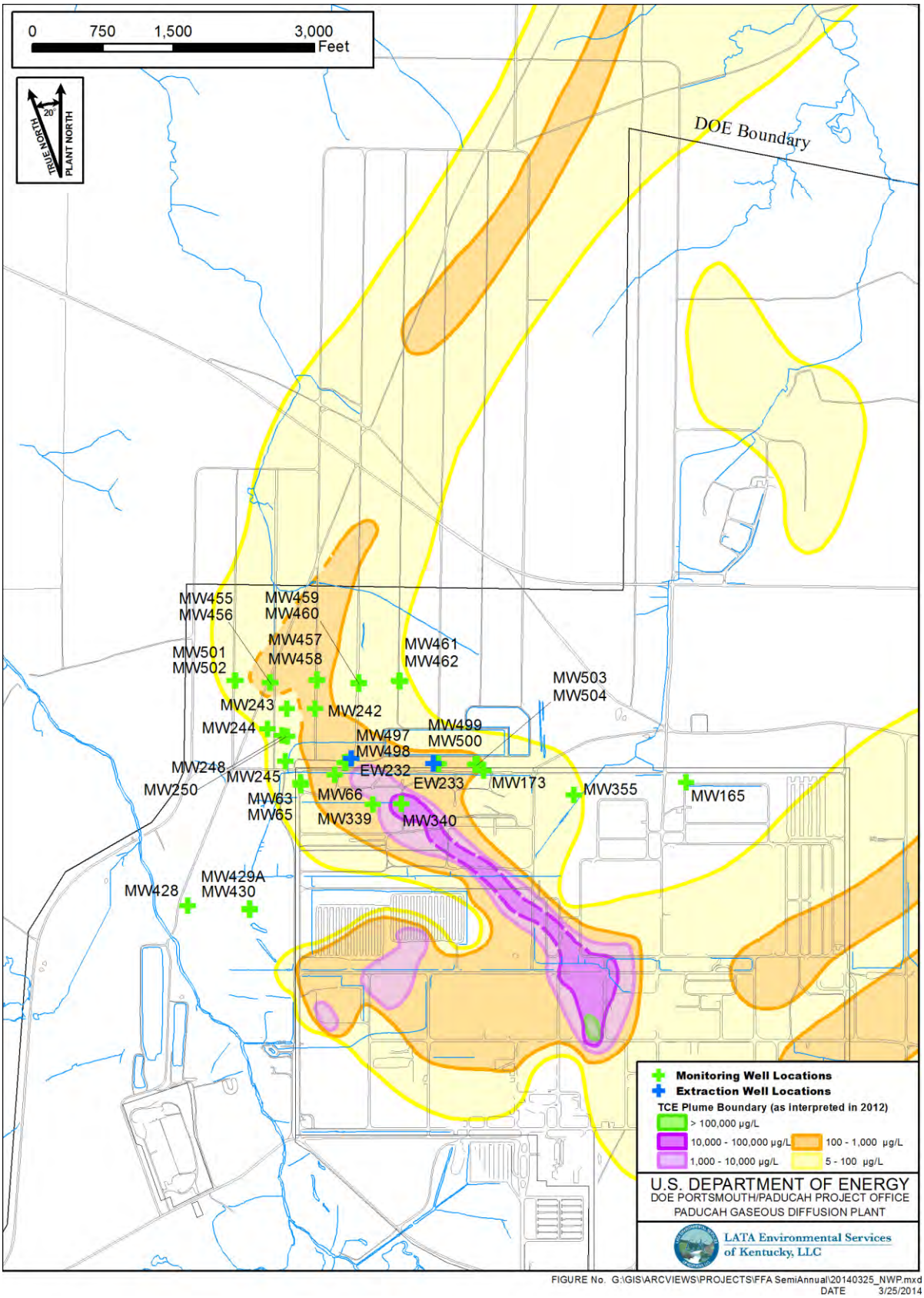


Figure B.11. Northwest Plume Groundwater Wells

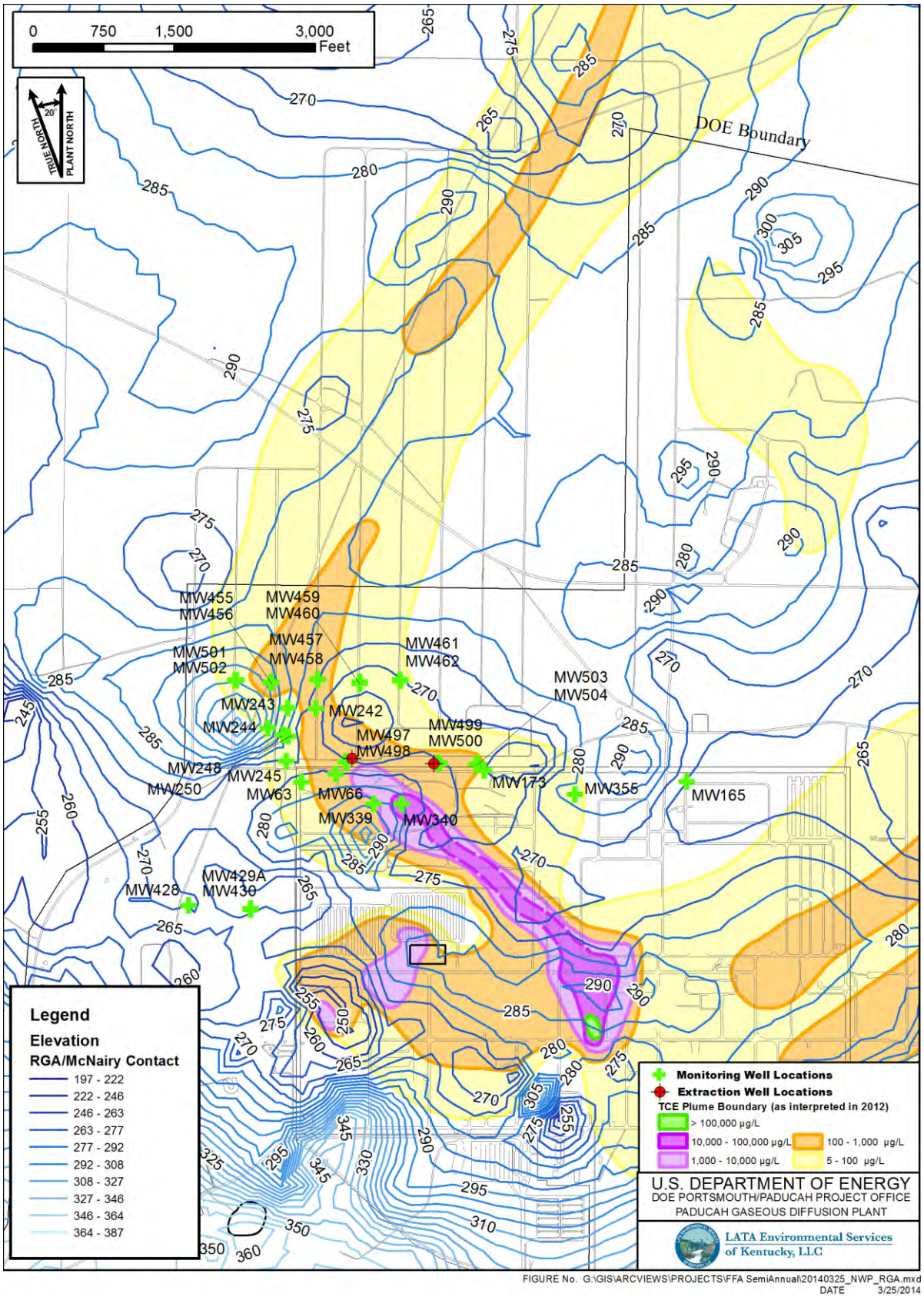
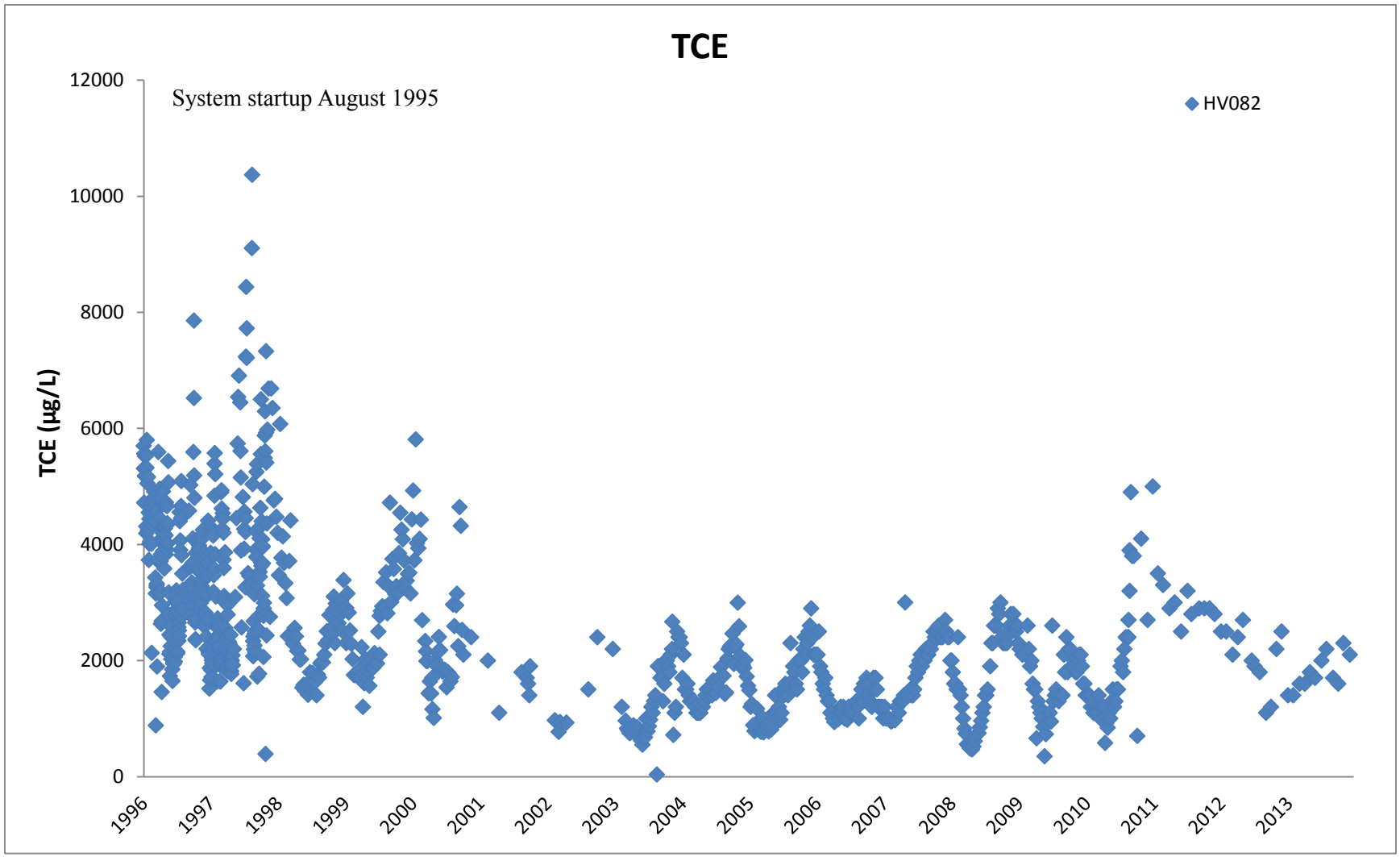
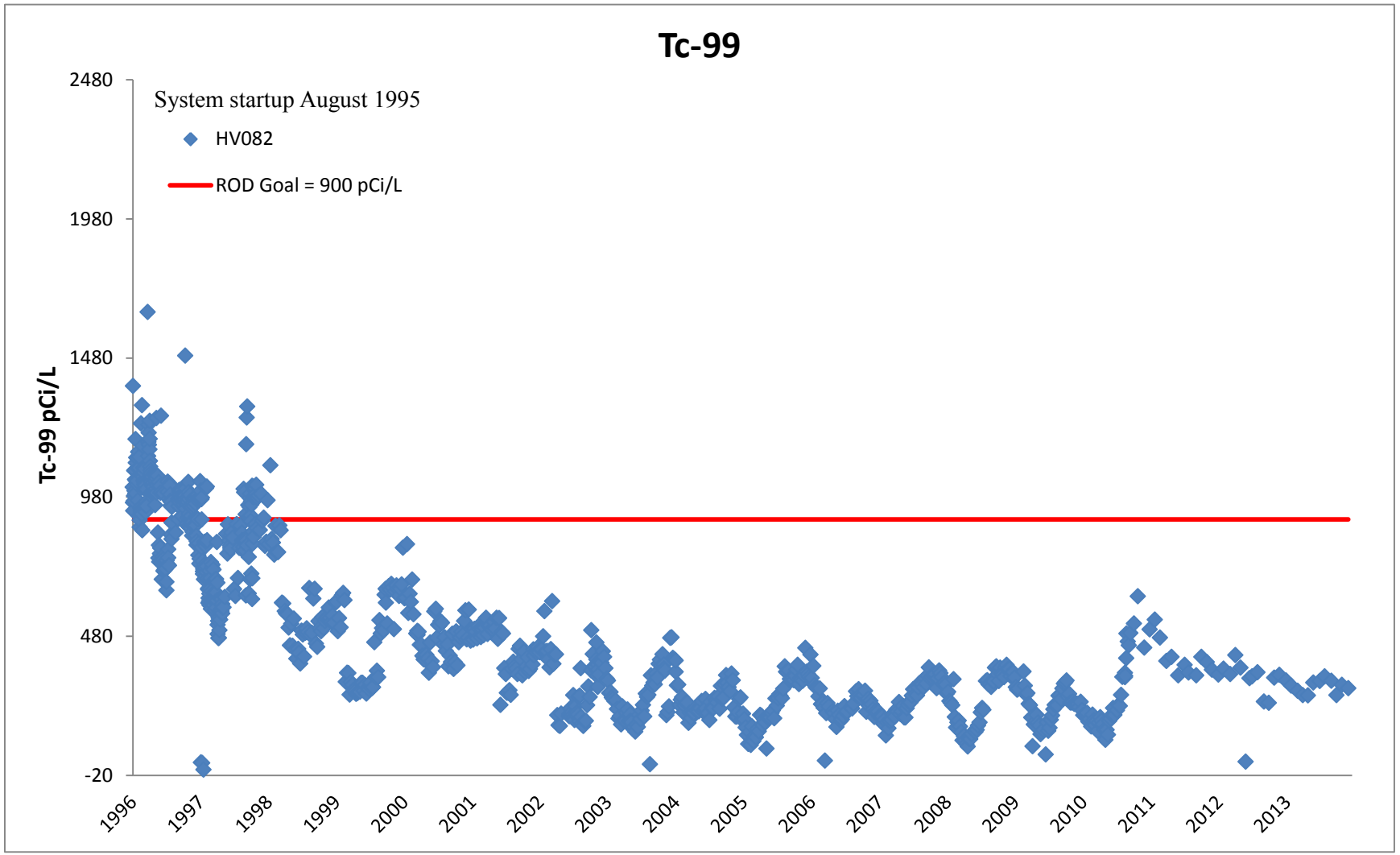


Figure B.12. Northwest Plume with Top of McNairy Topography



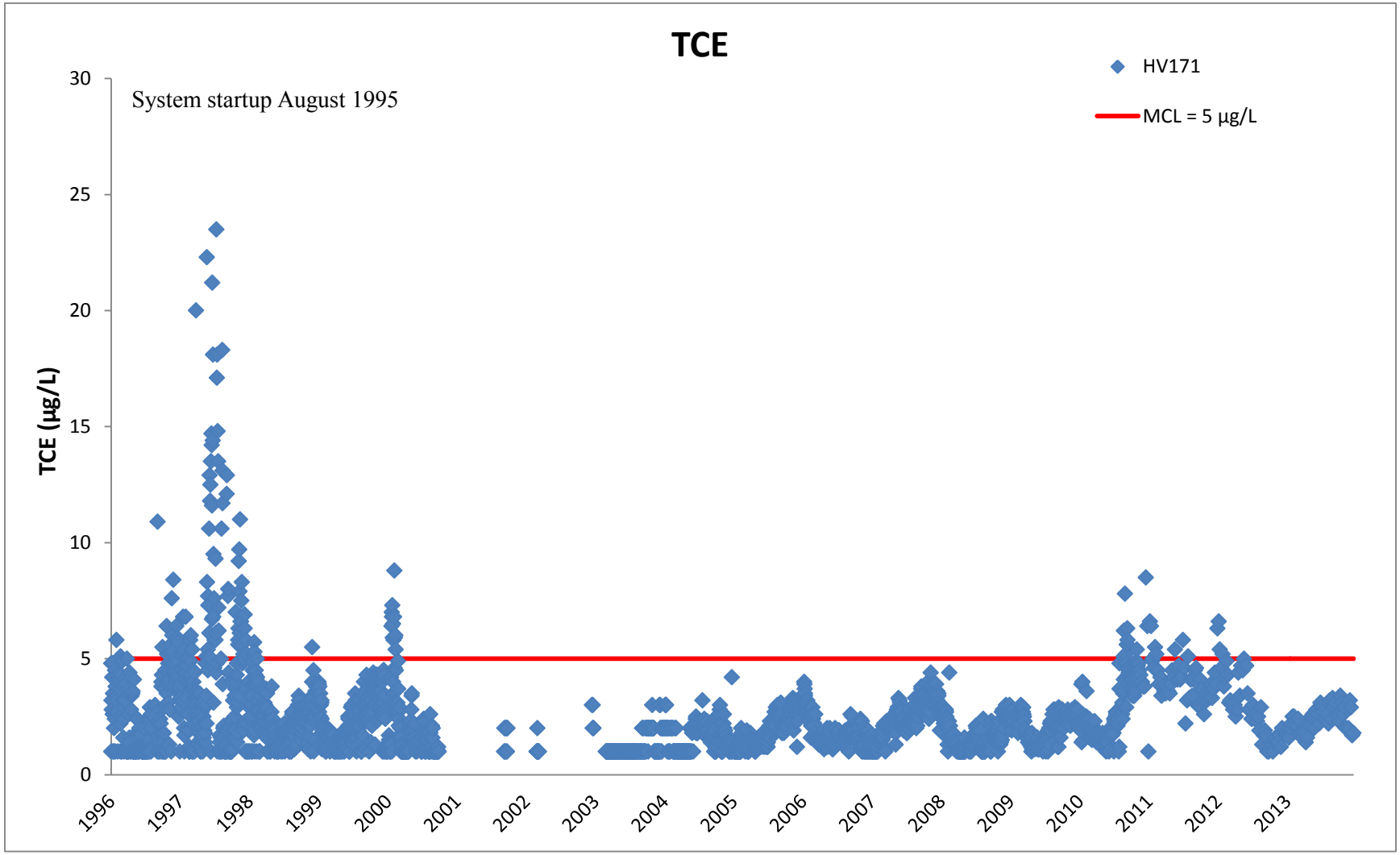
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.13. Northwest Plume Groundwater System Influent TCE Concentrations



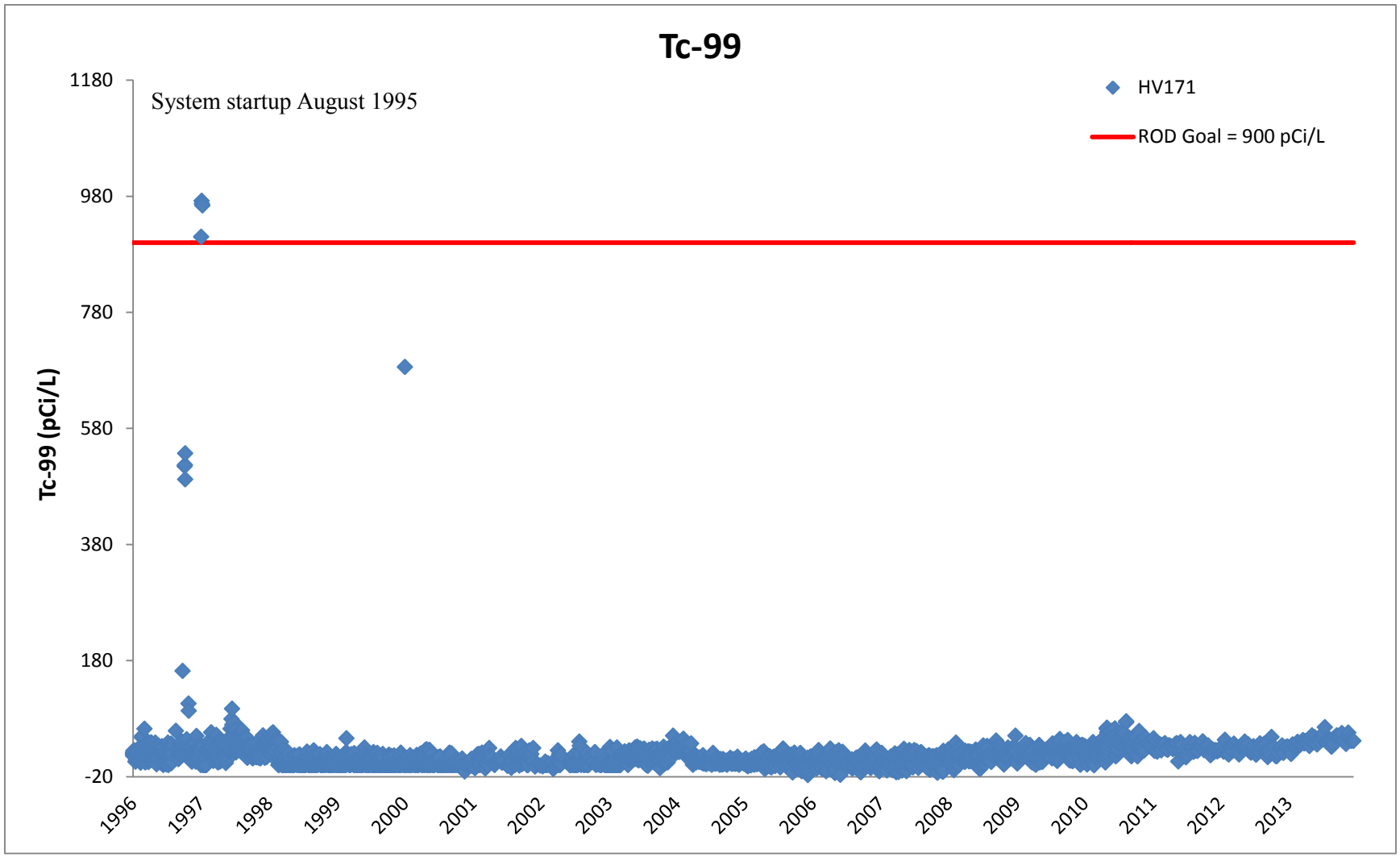
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.14. Northwest Plume Groundwater System Influent Tc-99 Activities



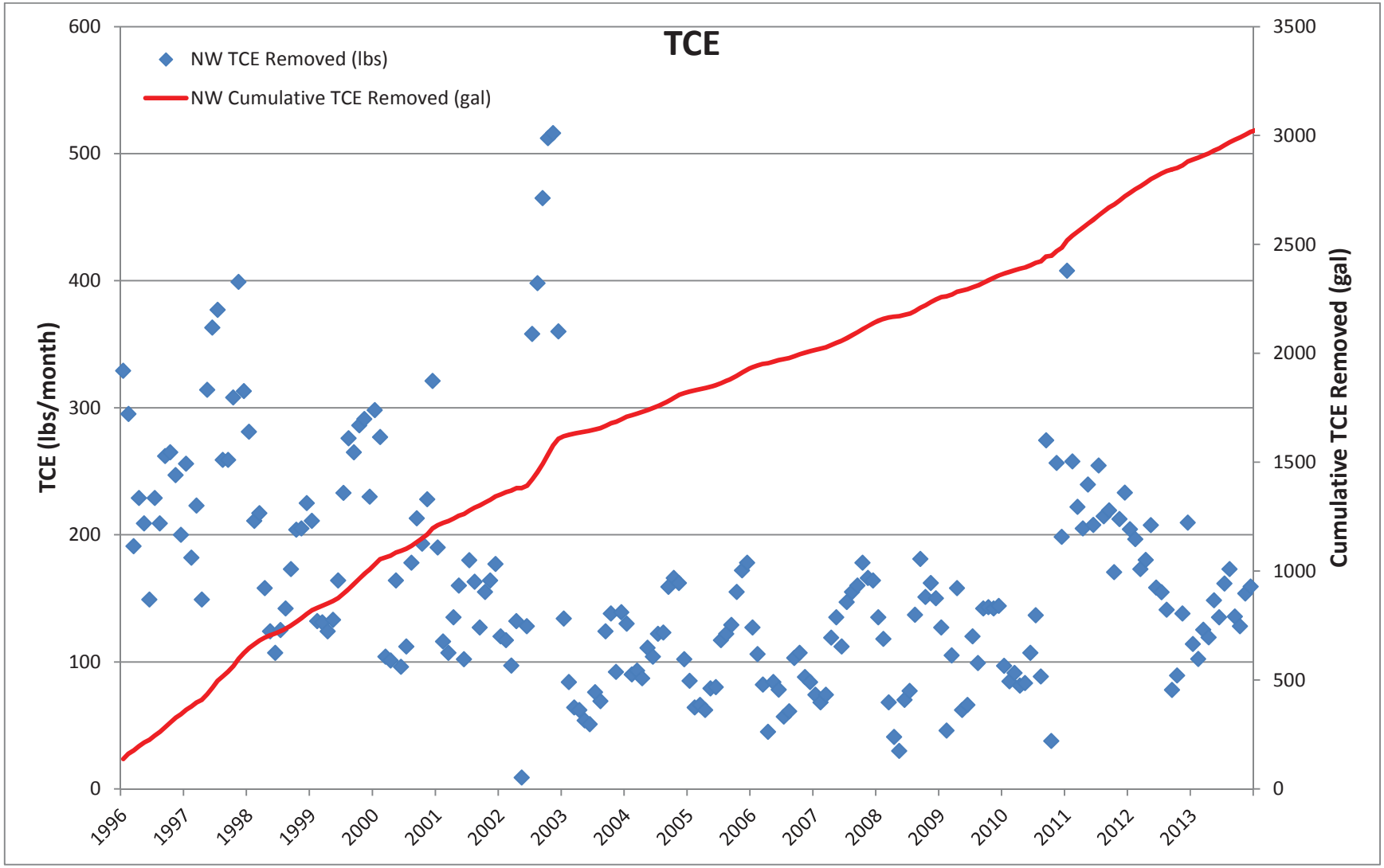
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.15. Northwest Plume Groundwater System Effluent TCE Concentrations



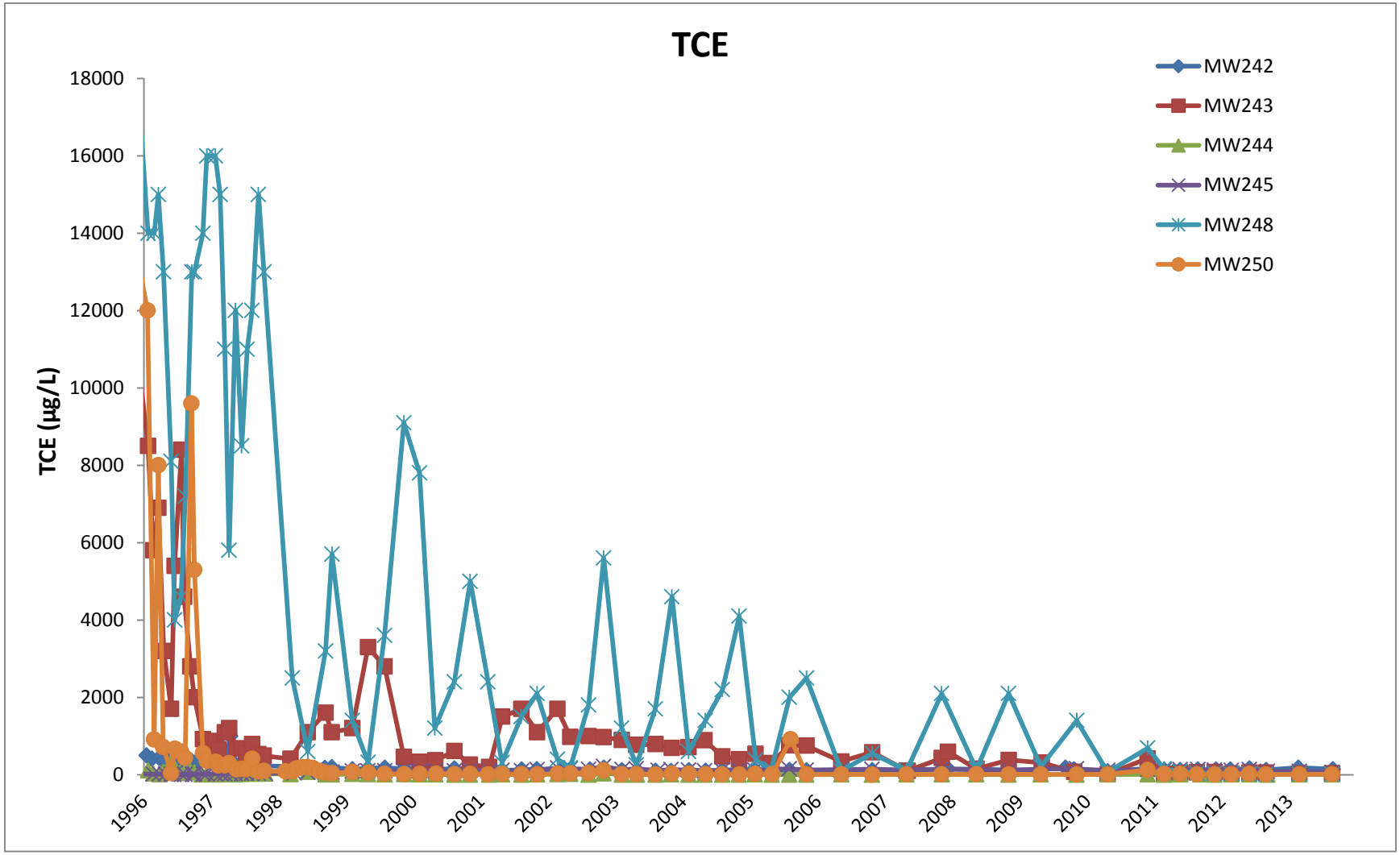
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.16. Northwest Plume Groundwater System Effluent Tc-99 Activities



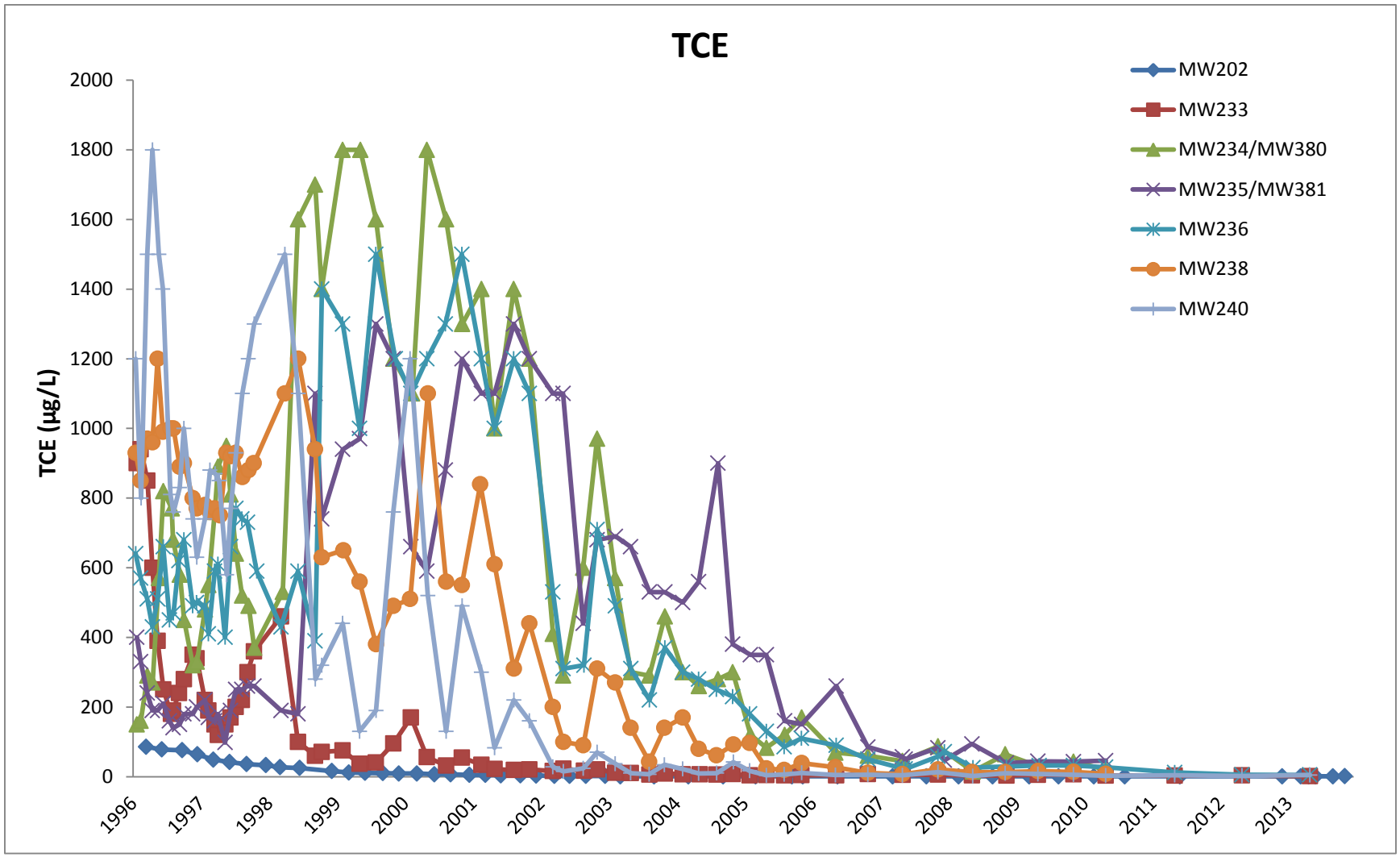
NOTE: Data rejected by validation or assessment are not included on the graph.

Figure B.17. Northwest Plume Groundwater System TCE Removed



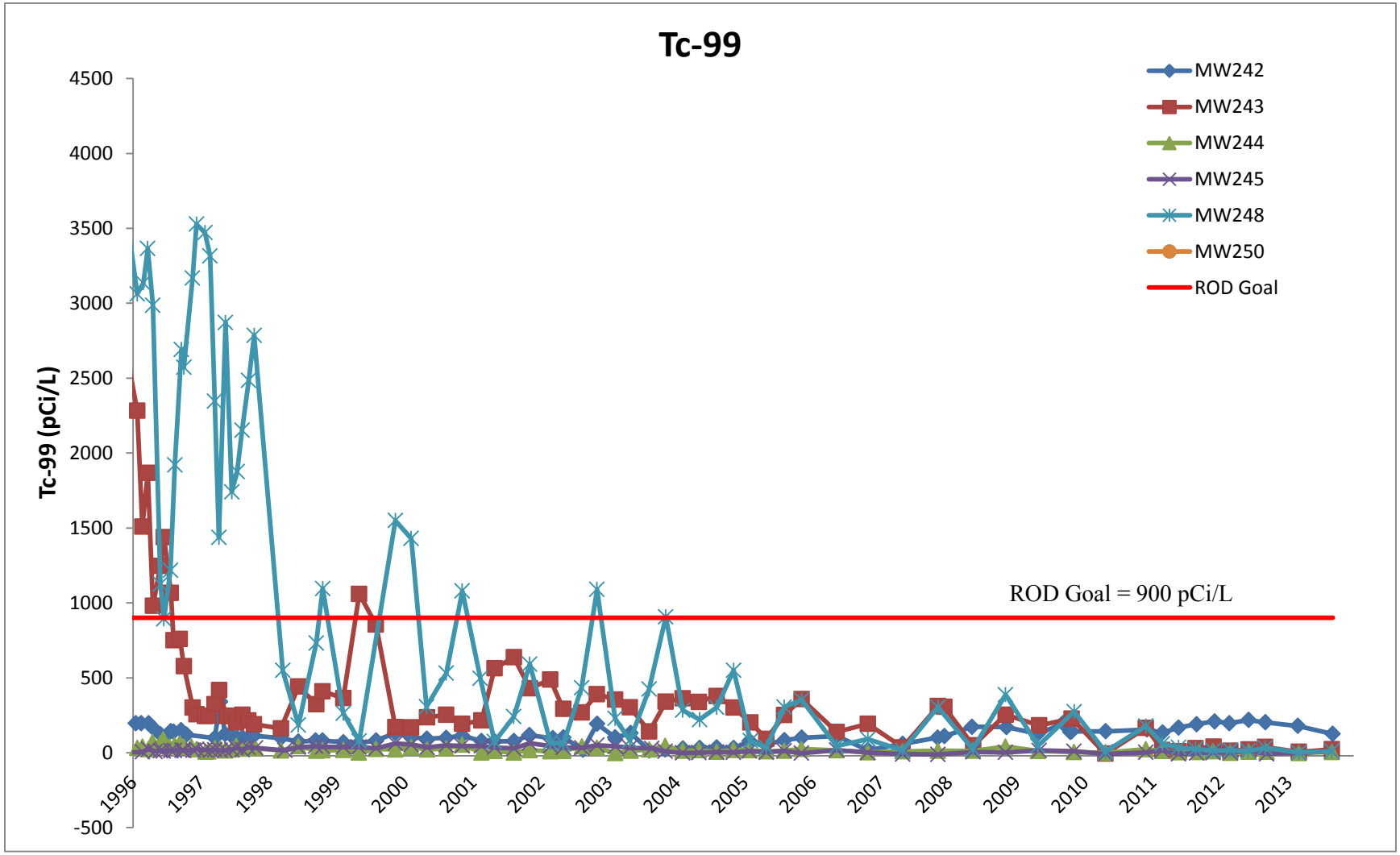
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.18. Northwest Plume—South Well Field TCE Concentrations



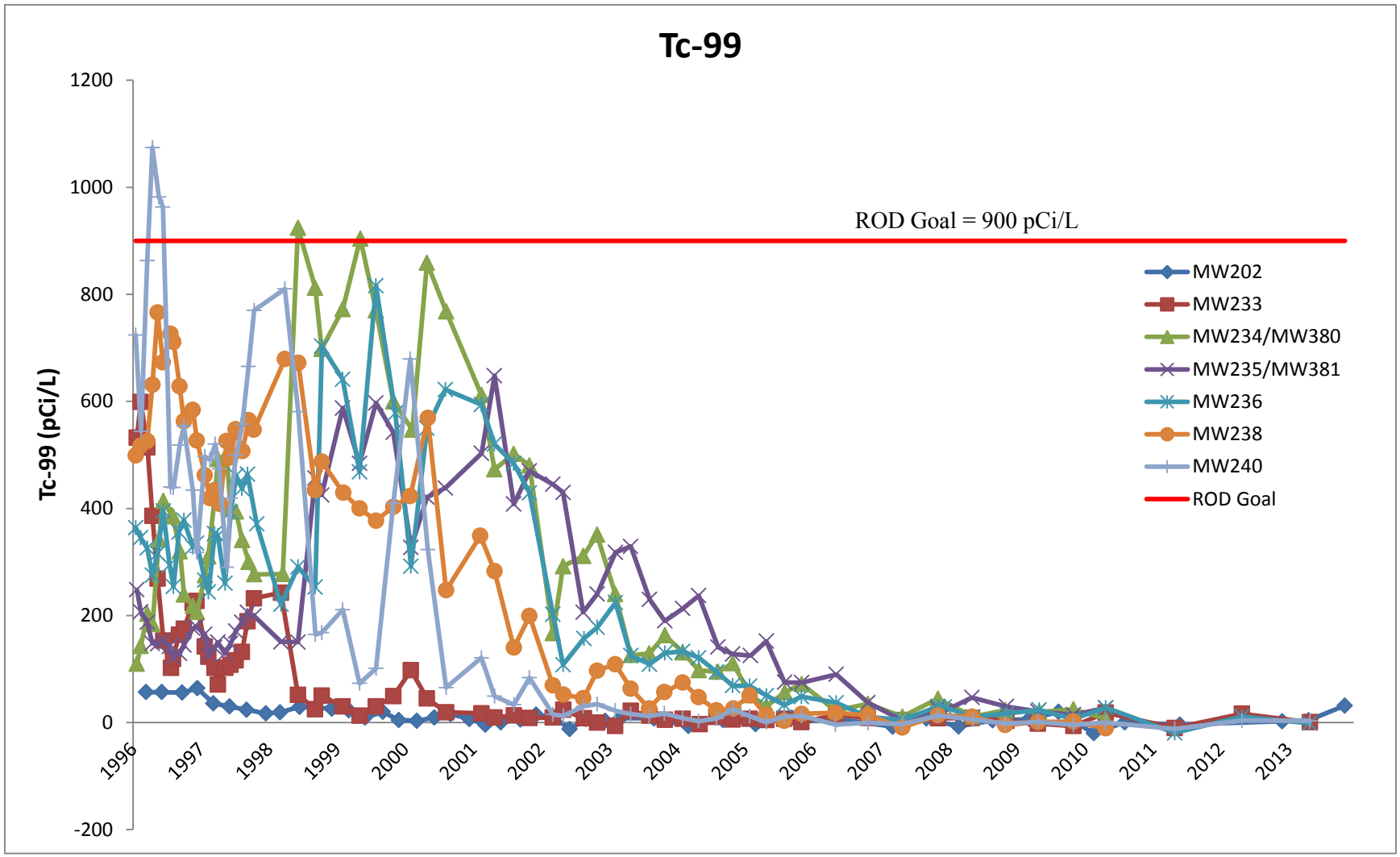
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.19. Northwest Plume—North Well Field TCE Concentrations



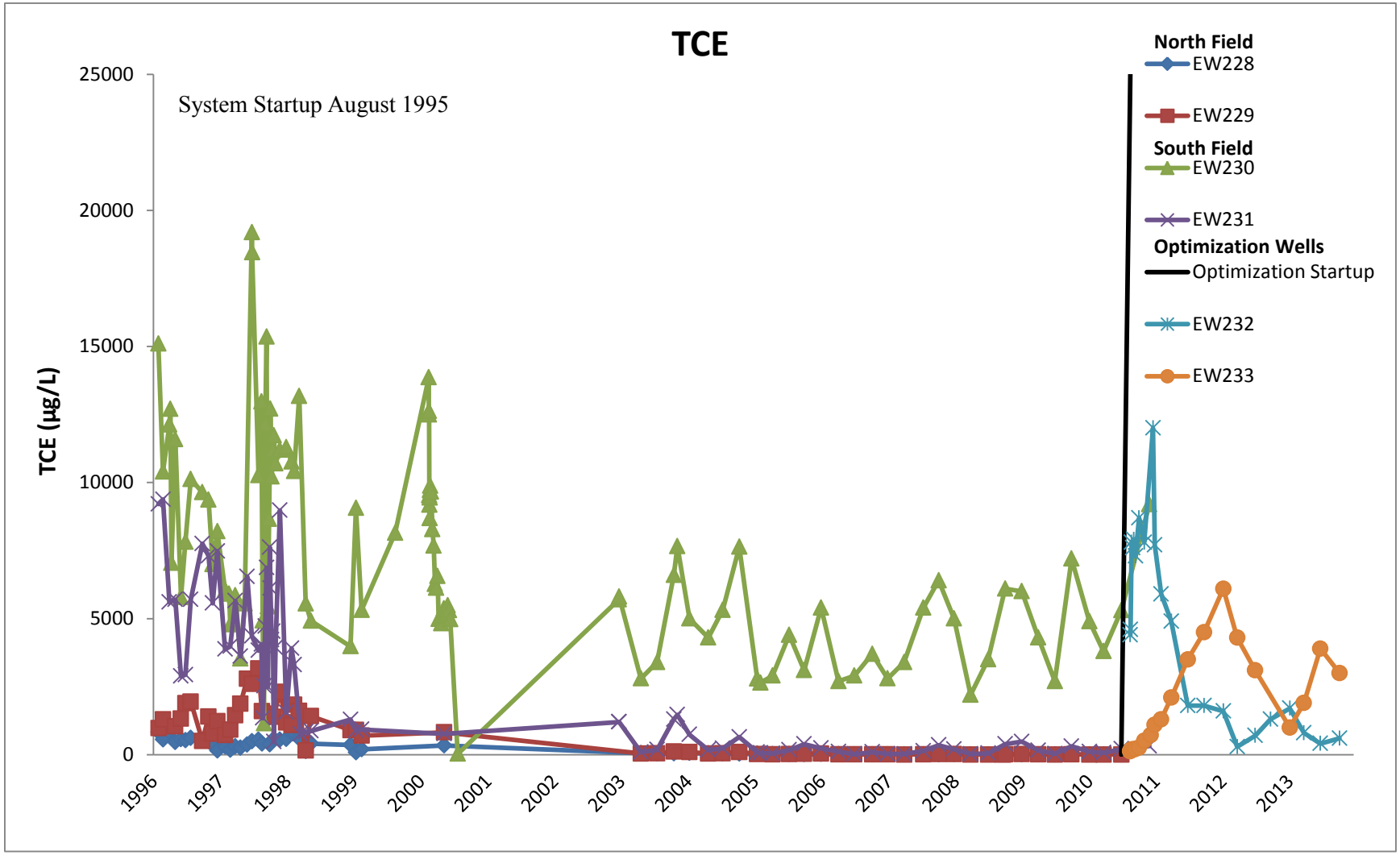
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.20. Northwest Plume—South Well Field Tc-99 Activities



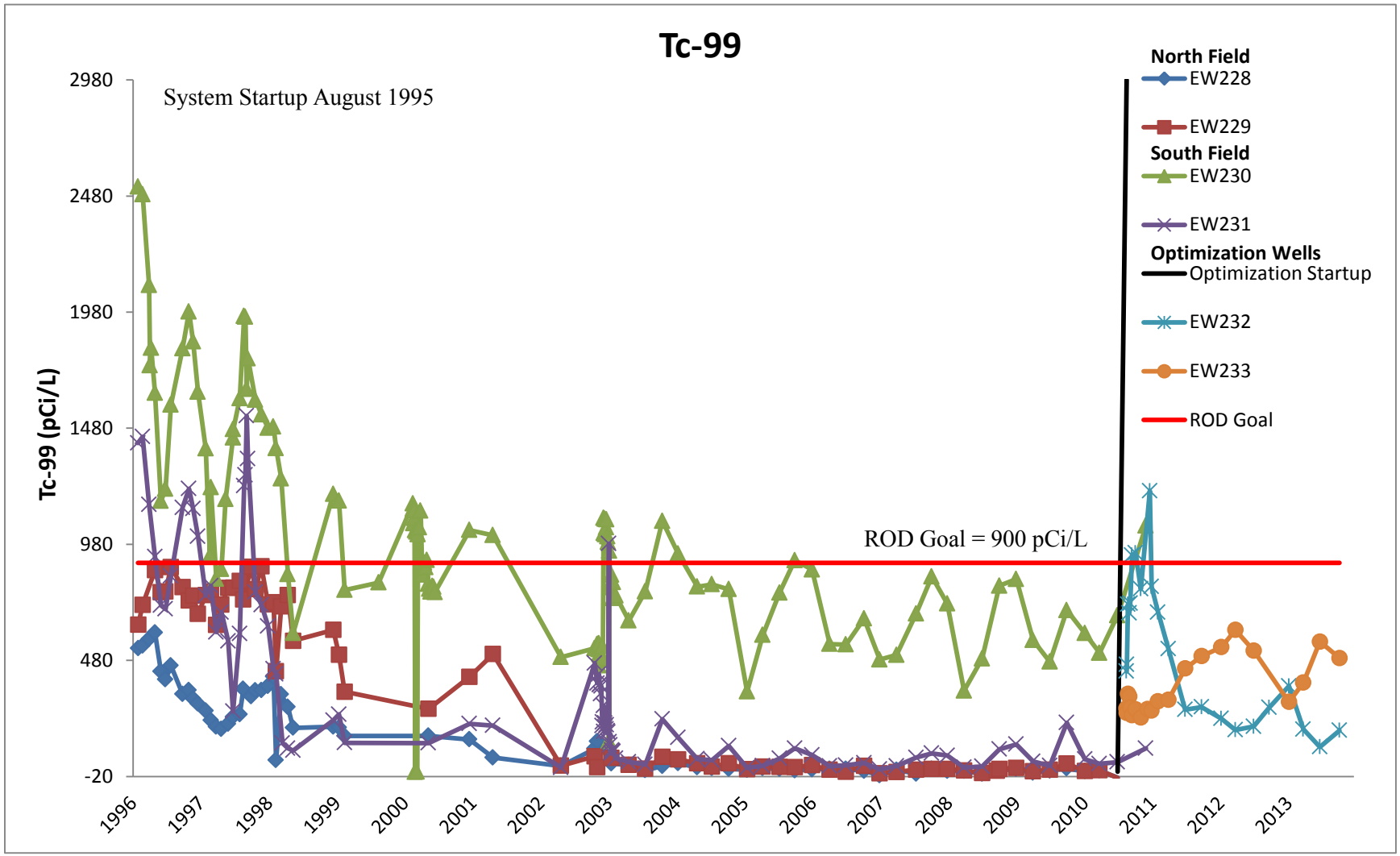
NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.21. Northwest Plume—North Well Field Tc-99 Activities



NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.22. Northwest Plume—TCE Concentrations in Extraction Wells



NOTE: Data rejected by validation or assessment have not been graphed.

Figure B.23. Northwest Plume—Tc-99 Activities in Extraction Wells

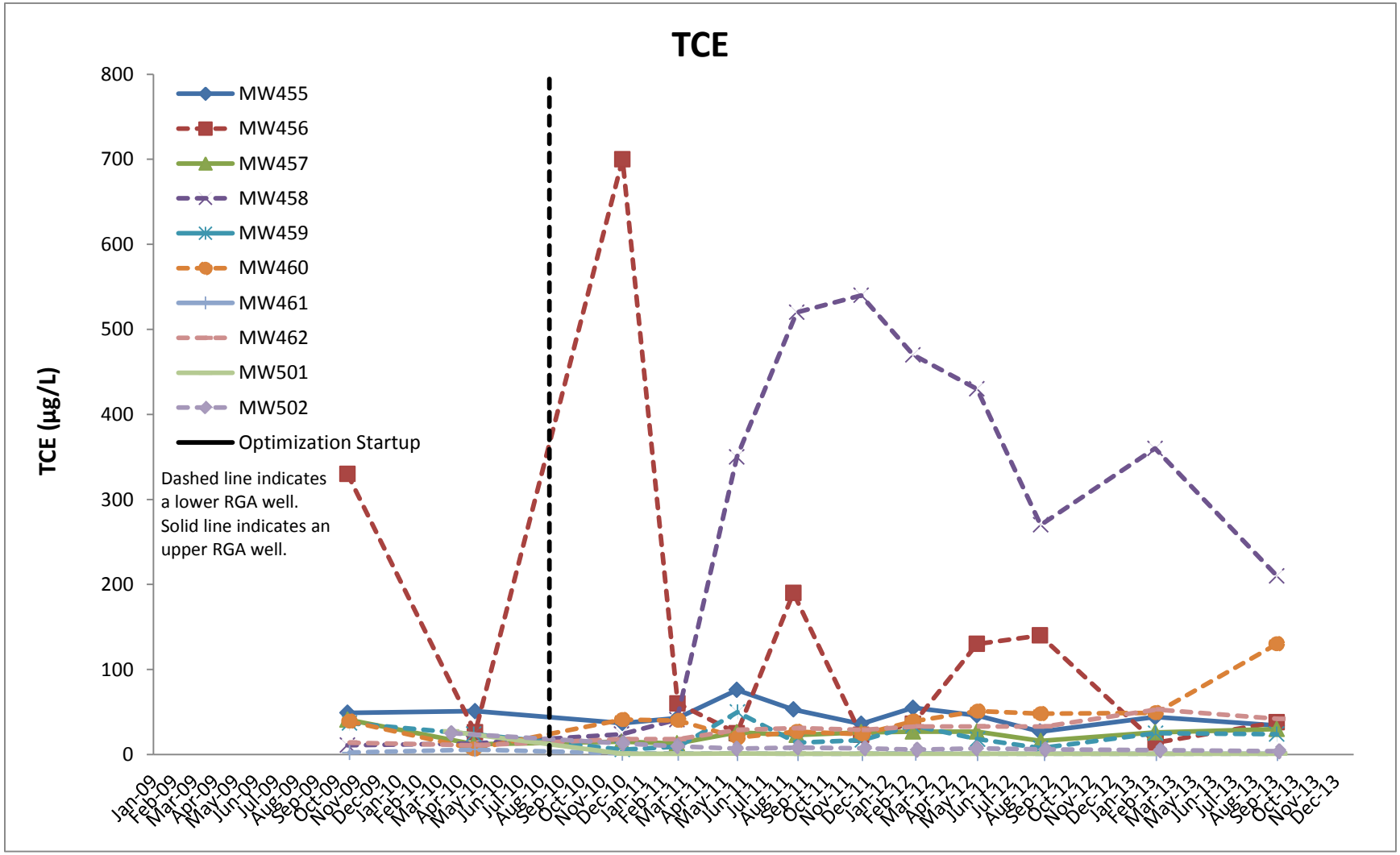


Figure B.24. Northwest Plume—New Well Field TCE Concentrations

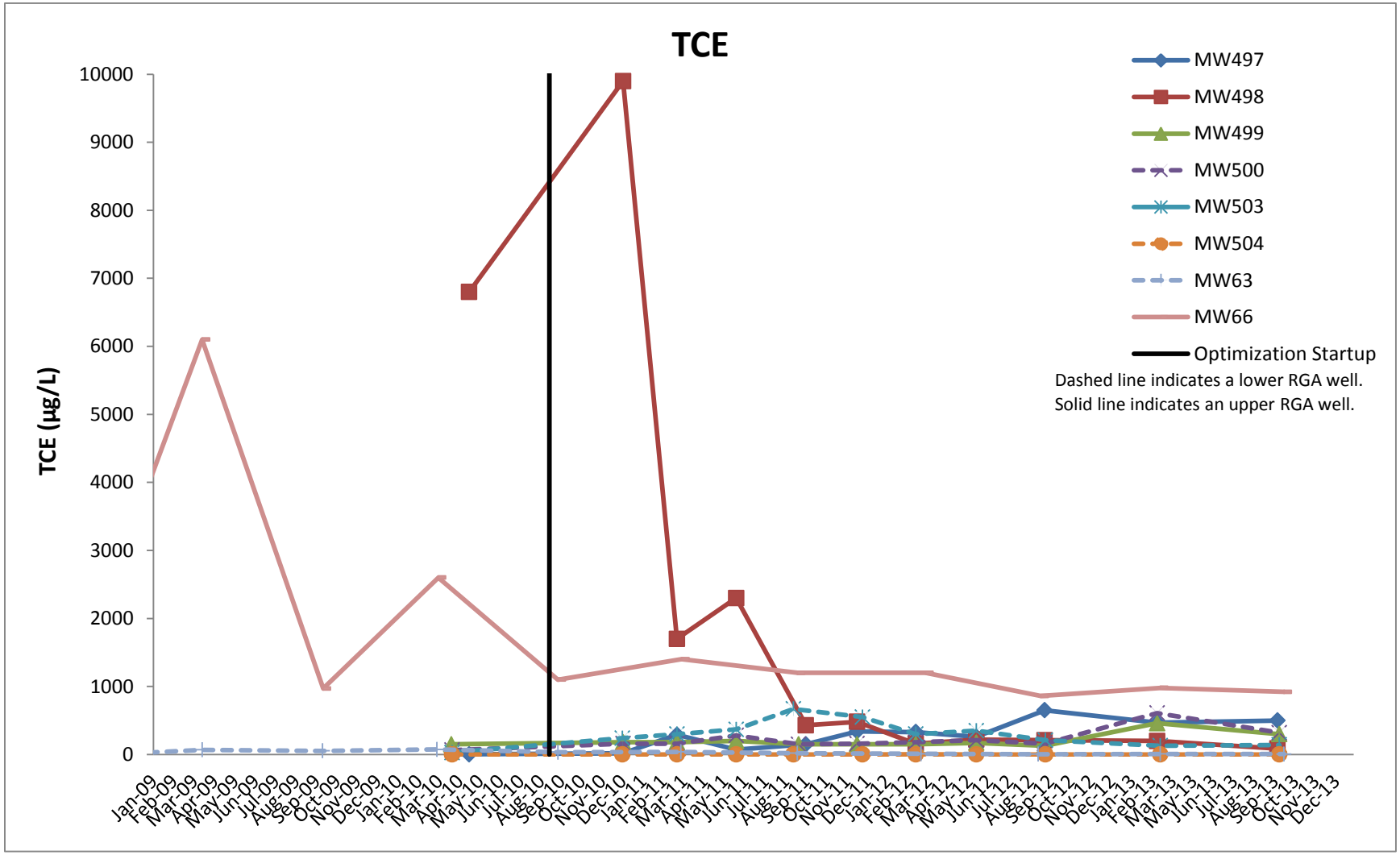


Figure B.25. Northwest Plume—Additional Well Field TCE Concentrations

Northeast Plume CERCLA Outfall Monitoring

Water Quality Records for

Sample Date Range: 9/1/2013 - 2/28/2014

C001

Sample Date	Organic Laboratory Analysis Results		Radiological Laboratory Analysis Results	Chronic Toxicity Analysis Results			Lab Sample ID
	TCE ug/L	1,1-DCE ug/L	Tc-99 pCi/L	Ceriodaphnia dubia TUc		Pimephales Promelas TUc	
9/3/2013	6.3	< 1					C13246018001
9/10/2013	10	< 5					C13253015001
9/10/2013	9.4	< 5					C13253015002
9/13/2013				< 1		< 1	QTXC0019-13
9/16/2013	9	< 5					C13259014001
9/23/2013	8.3	< 5					C13266024001
10/3/2013			16.2				C13276015001
10/3/2013	9.4	< 1					C13276032002
10/7/2013	6.6	< 1					C13280028001
10/14/2013	3.8	< 1					C13287017001
10/21/2013	< 1	< 1					C13294018001
10/25/2013				< 1		< 1	QTXC00110-13
10/28/2013	2.9	< 5					C13301021001
11/4/2013	3	< 5					C13308025001
11/4/2013			20.2				C13308024001
11/11/2013	3.4	< 5					C13315031002
11/11/2013	3.3	< 5					C13315031001
11/20/2013	3	< 5					C13324011001
11/25/2013	< 1	< 1					C13329036001
12/2/2013	< 1	< 1					C13336090001
1/21/2014			21.2				C14021027001

Wednesday, April 02, 2014

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

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Northeast Plume CERCLA Outfall Monitoring

Water Quality Records for

Sample Date Range: 9/1/2013 - 2/28/2014

C001

Sample Date	Organic Laboratory Analysis Results		Radiological Laboratory Analysis Results	Chronic Toxicity Analysis Results			Lab Sample ID
	TCE ug/L	1,1-DCE ug/L	Tc-99 pCi/L	Ceriodaphnia dubia	TUc	Pimephales Promelas TUc	
1/21/2014			19.1				C14021027002
1/21/2014	3.7	< 1					C14021029001
1/27/2014	3.5	< 1					C14027014001
1/31/2014				< 1		< 1	QTXC0011-14
2/5/2014	< 1	< 1					C14036044001
2/10/2014	4.7	< 1					C14041021001
2/17/2014	5.4	< 1					C14048023001
2/17/2014	5.7	< 1					C14048023002
2/24/2014	4.8	< 1					C14055021001

Wednesday, April 02, 2014

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

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APPENDIX C

C-746-K LANDFILL DATA

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C-746-K Landfill groundwater data for reporting period 5/1/2013–10/31/13 have been included.

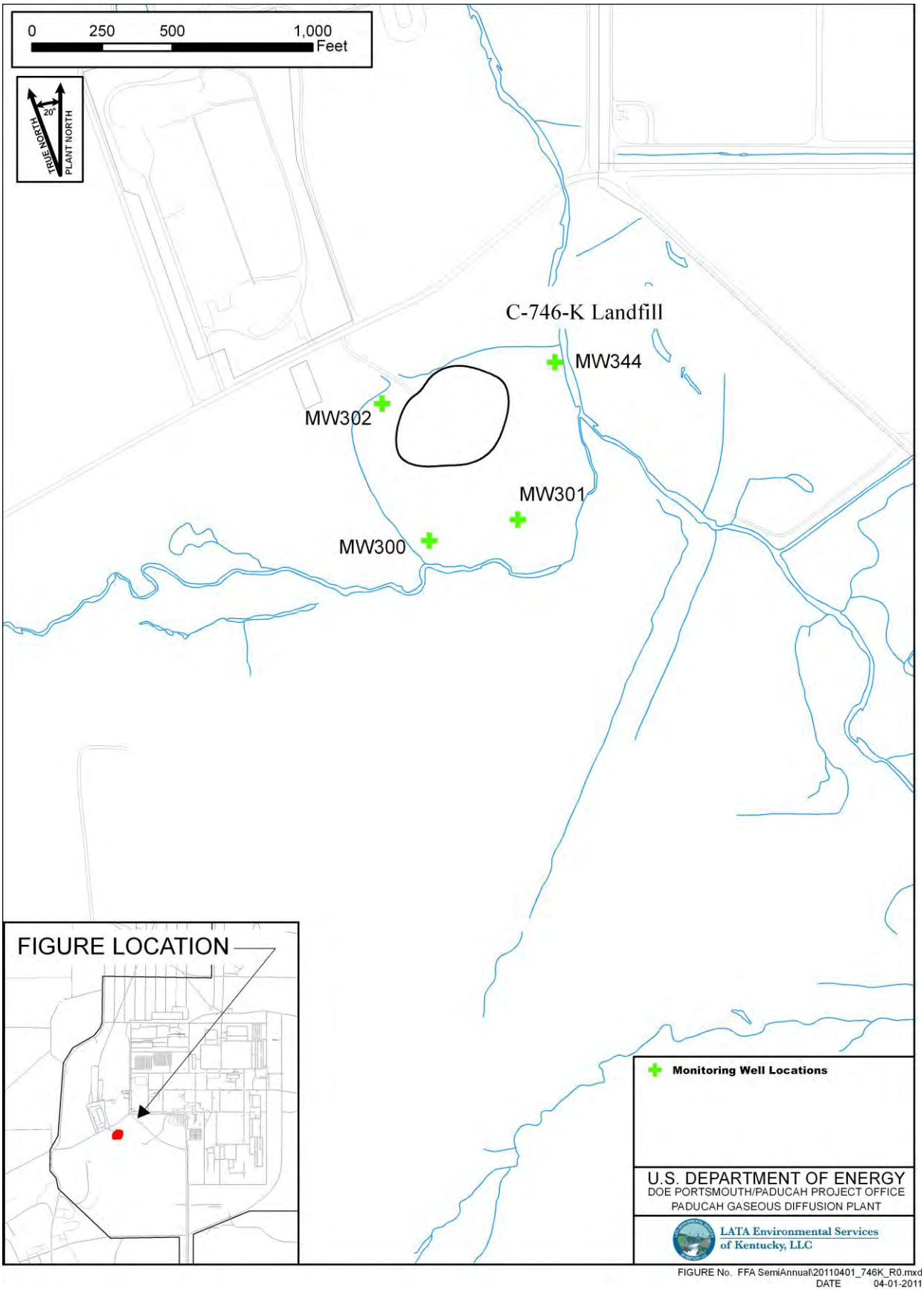

Figure C.1. Monitoring Well Locations

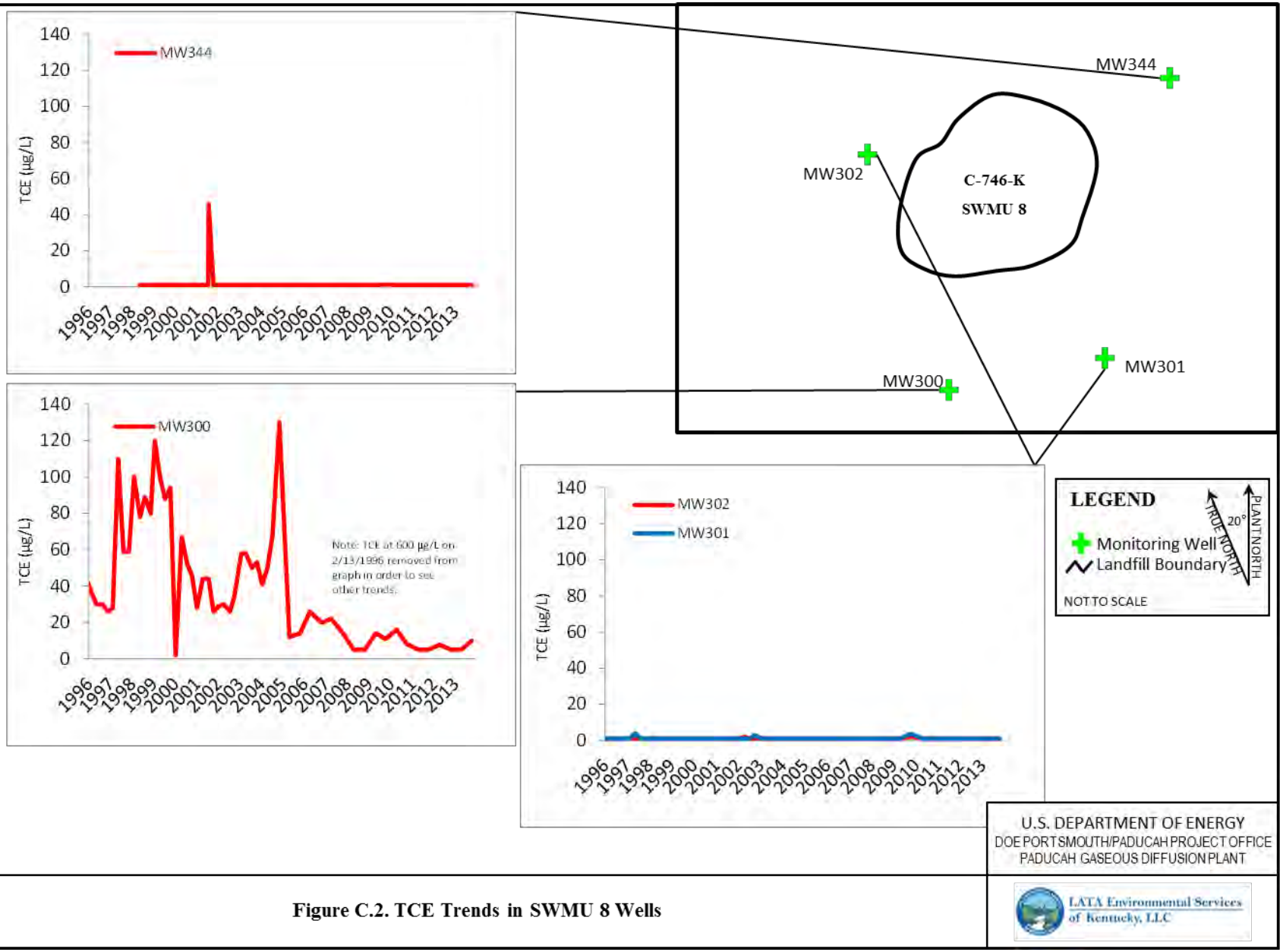

Figure C.2. TCE Trends in SWMU 8 Wells

C-746-K Landfill Monitoring

Water Quality Records for

MW300

Sample Date Range: 5/31/1994 - 10/31/2013

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	
5/31/1994	27	18	23	< 5		87.7	1230	< 50.7	25.8	< 31.3	7.68	3220303
3/21/1995	52	72	61	< 50	< 50		973	49	33.8	27	1	950322-056
7/12/1995	38	< 50	< 50	< 50	< 50		761	52.4	47	143	3	950713-153
9/12/1995	38	< 50	< 50	< 50	< 50	52.8	679	57.5	24	33	12	950913-029
12/7/1995	42	56	47	< 5	< 5		767	44.6	59.9	-6	0	951211-006
2/13/1996	600	54	< 50	< 50	< 50	64.5	985	60			4	960214-062
5/9/1996	30	< 50	< 50	< 50	< 50	44.9	792	44.9	.4	16	2	960513-011
8/19/1996	30	< 50	< 50	< 50	< 50	37.2	568	44.4	22.9	31.5	0	960819-088
11/18/1996	26	< 50	< 50	< 50	< 50	35.8	570	37.5	7.4	48	0	961118-095
2/10/1997	28	49	30	< 25	< 25	21.3	412	20.6	5	45	0	970211-009
5/13/1997	110	120	61	< 50	< 50	31.3	518	27.6	5.2	11	0	970514-042
8/7/1997	59	< 50	68	< 50	< 50	27	497	31.2	12	13	0	970807-104
11/10/1997	59	110	66	< 25	< 25	31.8	521	32.3	-7.7	6	4	971110-114
2/4/1998	100	240	140	< 50	< 50	36.2	674	33.8	< -.4	< 2	< -2	C980370056
5/19/1998	78	460	< 250	< 250	< 250	30.8	534	30.5	< 6.3	< 54	< 4.8	C981400029
8/11/1998	89	230	120	< 5	< 5	27.3	532	31	< 37.7	< 11	< 9.2	C982240047
11/16/1998	80	< 250	< 250	< 250	< 250	25.2	406	28.1	32.52	< 37.03	< -4.1	C983200080
1/25/1999	120	250	< 250	< 250	< 250	27	490	27.4	< 1.11	< 4.76	< -8.4	C990250154
4/19/1999	100	240	110	< 100	< 100	26.7	559	25.7	< 28.48	< 55.05	< -4.95	C991090060
7/15/1999	88	210	< 100	< 100	< 100	24.8	506	28.3	< 2.73	< -19.36	< 3.06	C991960146
10/14/1999	94	210	< 200	< 200	< 200	23.2	500	27.2	< 18.8	< 40.17	< -1.57	C992870104
1/13/2000	2	< 5	< 5	< 5	< 5	19.2	303	20.8	< -2.5	< 24.46	< 8.53	C000130120
1/13/2000	2	< 5	< 5	< 5	< 5	15.9	301	19	< -4.85	< -7.6	< 8.59	C000130123
4/27/2000	67	130	80	< 50	< 50	18.2	310	21.4	< 10.97	66.12	< -1.63	C001190009
7/27/2000	52	< 100	< 100	< 100	< 100	15.2	318	23.7	< 15.87	< 55.01	< 11.9	C002090106
10/16/2000	46	100	60	< 5	< 5	14.8	278	23	< 8.41	< 36.69	< 2.75	C002910044
1/10/2001	28	64	39	< 5	< 5	10.3	217	18	< -9.46	< 4.09	< 2.2	C010100097
4/16/2001	44	100	64	< 50	< 50	15	340	24.1	< -7.63	< 25.6	< 27.4	C011060085
7/24/2001	44	93	59	< 50	< 50	16.4	331	28.6	< 27	< 8.41	< 7.99	C012060008
10/15/2001	26	< 50	< 50	< 50	< 50	10.6	220	18.8	< 32.5	33.9	< -2.48	C012880074
1/22/2002	29	< 100	< 100	< 100	< 100	10	286	20.9	< 43.8	< 19.4	< 3.36	C020220046
4/10/2002	30	57	< 50	< 50	< 50	13	381	26.6	< -15.1	< 50.8	< 2.75	C021010048

C-6

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C-746-K Landfill Monitoring

Water Quality Records for

MW300

Sample Date Range: 5/31/1994 - 10/31/2013

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	
7/24/2002	26	< 100	< 100	< 100	< 100	12.6	363	24.8	< 23.2	< 43.3	21.5	C022060003
7/24/2002	26	< 100	< 100	< 100	< 100	12.9	339	26.8	< 47.4	62.2	< 8.97	C022060004
10/3/2002	34	66	< 50	< 50	< 50	.0101	.33	36.9	< 26.9	< 24.9	17.5	C022760027
1/30/2003	58	160	100	< 50	< 50	10.8	395	23.5	< 3.65	< 3.52	< 1.19	C030310020
4/15/2003	58	180	< 100	< 100	< 100	6.86	437	22.9	< 2.47	< 20.3	< 4.19	C031050068
7/30/2003	42	< 100	< 100	< 100	< 100	21.9	409	27	< 9.4	< 48.7	< 1.31	C032110044
7/30/2003	50	< 100	< 100	< 100	< 100	14.3	382	25.4	< 51.5	53.5	< 4.26	C032110045
10/21/2003	53	92	63	< 50	< 50	.55	497	24.9	< 39.1	< 38	< -4.59	C032950017
1/26/2004	41	120	< 100	< 100	< 100	.471	414	1.91	< 50.1	< 1.36	< 6.71	C040260079
4/21/2004	50	140	< 100	< 100	< 100	.591	327	17.2	< -5.55	< 8.26	< -1.58	C041130033
7/15/2004	55	140	< 100	< 100	< 100	.882	396	22.9	< 15	< 17.4	< -6.91	C041970167
7/15/2004	68	160	< 100	< 100	< 100	.69	424	24.2	< 21.8	< -11.1	< -7.47	C041970166
11/9/2004	130	110	< 100	< 100	< 100	.99	369	22.9	< 12	< 29.7	< -2.6	C043150018
4/27/2005	12	51	< 50	< 50	< 50	.289	126	11.8	< 19.1	39.8	< -2.41	C051170049
10/25/2005	14	65	< 50	< 50	< 50	.344	178	15.2	< 2.14	29.6	< 6.49	C052990006
10/25/2005	13	55	< 50	< 50	< 50	.259	199	16.1	< 18.1	38.4	< 8.37	C052990007
4/11/2006	26	120	77	< 50	< 50	< .2	161	16.5	< .896	< 28.2	< -2.86	C061020009
10/23/2006	< 20	< 100	< 100	< 100	< 100	.334	124	16.2	< -.251	< 16.2	< 8.62	C062960050
4/12/2007	< 22	< 120	< 60	< 50	< 50	< .2	203	18.1	< -3.16	< 33.1	< -1.66	C071030007
10/25/2007	14	120	77	< 5	< 5	< .2	162	19.7	< -.658	< 25.1	< 1.82	C072980183
10/25/2007	13	120	75	< 5	< 5	< .2	166	20.2	< 4.54	27.8	< 1.13	C072980184
4/28/2008	< 5	42	34	< 25	< 5		117	16.8	< -.155	64.4	< .8	C081200001
10/29/2008	< 5	48	32	< 25	< 5	< .2	63.9	15	< 6.06	43.7	< 11.7	C08304013001
10/29/2008	< 5	46	29	< 25	< 5	< .2	110	16.9	< 5.22	34.8	< 6.45	C08304013002
4/30/2009	14	93	52	< 5	< 5	< .2	104	27.4	< -.39	37	< 5.55	C09120015001
10/19/2009	11	39	24	< 2	< 2	< .2	36.9	11.2	< -1.13	28.4	< -8.36	C09292035001
10/19/2009	9	41	24	< 2	< 2	< .2	65	9.73	< -2.41	27.1	< -8.19	C09292035002
4/20/2010	16	130	58	< 25	< 5	< .2	121	19.2	< -4.11	33.6	< -1.74	C10110009002
10/13/2010	8	130	72	< 25	< 5	< .4	241	27.2	< 21.9	48.4	< -7.38	C10286021002
10/13/2010	8	140	78	< 25	< 5	< .4	165	25.5	< 2.34	62.3	< -3.09	C10286021003
4/26/2011	< 5	68	44	< 25	< 5	.625	129	14.1	< .246	34.3	< -.327	C11116009001
10/19/2011	< 5	68	42	< 5	< 5	.558	155	18.4	< 2.93	65.7	< .89	C11292015001

C-7

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C-746-K Landfill Monitoring

Water Quality Records for

Sample Date Range: 5/31/1994 - 10/31/2013

MW300

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
10/19/2011	< 5	71	44	< 5	< 5	.358	78.8	15.8	< 13.2	53.9	< -4.3	C11292015002
4/24/2012	7.8	100	59	< 5	< 5	< 2	218	18.2	< 3.57	80.6	< 3.84	C12115011001
10/29/2012	< 5	100	69	< 5	< 5	1.65	217	25.3	< 12.6	57.8	< -2.74	C12303019002
10/29/2012	< 5	93	56	< 5	< 5	.271	222	25.5	< 1.27	49.6	< -4.68	C12303019003
4/23/2013	< 5	93	73	< 5	< 5	< .2	292	23.6	< 4.25	< 42	< -2.67	C13113007001
10/21/2013	< 10	76	53	< 10	2.2	< .2	201	21.4	< 3.28	61.9	< .287	C13294037002
10/21/2013	< 10	76	52	< 10	< 2	< .2	208	20.7	< -6.52	< 36.5	< 11.5	C13294037003

C-8

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C-746-K Landfill Monitoring

Water Quality Records for

Sample Date Range: 5/31/1994 - 10/31/2013

MW301

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	
6/1/1994	< 5	< 5	3	< 5		.823	470	28.3	< 10.4	< 19.4	5.07	3220101
3/21/1995	< 1	< 5	< 5	< 5	< 5		236	22	-5.9	34	3	950322-052
7/12/1995	< 1	< 5	< 5	< 5	< 5		249	22.1	14	102	9	950713-157
9/12/1995	< 1	< 5	< 5	< 5	< 5	< .625	171	17.8	-2.6	17	3	950913-025
12/7/1995	1	< 5	< 5	< 5	< 5		99	12.3	30.3	49	6	951211-014
2/13/1996	< 1	< 5	< 5	< 5	< 5	.766	166	18.9	6.3	82	0	960214-066
5/9/1996	< 1	< 5	< 5	< 5	< 5	.975	224	18	.3	22	3	960513-010
8/19/1996	< 1	< 5	< 5	< 5	< 5	1.58	284	21.3	5.5	42.4	7	960819-087
11/18/1996	< 1	< 5	< 5	< 5	< 5	1.32	175	19.5	-1.4	47	0	961118-096
11/18/1996	< 1	< 5	< 5	< 5	< 5	< .75	< .3	< .05	6	15	0	961118-097
2/10/1997	< 1	< 5	< 5	< 5	< 5	1.13	225	19.8	12.6	47	0	970211-015
5/13/1997	4	< 5	< 5	< 5	< 5	< .75	248	22	-11	45	0	970514-043
8/7/1997	< 1	< 5	< 5	< 5	< 5	< 1	203	17.2	19.2	160	0	970807-105
11/10/1997	< 1	< 5	< 5	< 5	< 5	< 1	72.4	10	4.3	18	3	971110-115
2/4/1998	< 1	< 5	< 5	< 5	< 5	2.44	160	15.8	< -11.3	106	< 4	C980370057
5/19/1998	< 1	< 5	< 5	< 5	< 5	< 1	169	17.4	< -2.3	< 25	< 8.2	C981400028
8/11/1998	< 1	< 5	< 5	< 5	< 5	2.13	170	16.3	< -2.3	< 35	< 4.3	C982240046
11/16/1998	< 1	< 5	< 5	< 5	< 5	< 1	102	12.8	< 11.32	55.82	< -15.9	C983200081
1/25/1999	< 1	< 5	< 5	< 5	< 5	< 1	138	14.9	< 3.83	< 52.42	< -5.8	C990250155
4/19/1999	< 1	< 5	< 5	< 5	< 5	< .2	203	18.2	< -6.97	< 49.78	< -10.6	C991090061
7/15/1999	< 1	< 5	< 5	< 5	< 5	< .2	210	17.5	< -12.3	< 32.1	< -6.69	C991960147
10/14/1999	< 1	< 5	< 5	< 5	< 5	< .2	73.7	10.6	17.2	50.79	< 2.57	C992870106
10/14/1999	< 1	< 5	< 5	< 5	< 5	< .2	73.1	10.3	< 1.83	41.56	< .419	C992870105
1/13/2000	< 1	< 5	< 5	< 5	< 5	< .2	77.8	9.32	< 6.93	52.05	< 6.54	C000130122
4/27/2000	< 1	< 5	< 5	< 5	< 5	< .2	152	15.6	< 4.87	< -6.93	< -12.6	C001190010
7/27/2000	< 1	< 5	< 5	< 5	< 5	< .2	135	14.9	< 2.09	< 4.03	< -2.23	C002090105
10/16/2000	< 1	< 5	< 5	< 5	< 5	< .2	70.6	10.6	< -16.56	63.66	< -2.02	C002910045
1/10/2001	< 1	< 5	< 5	< 5	< 5	< .2	95.6	12.2	< 6.56	27.9	< -1.62	C010100098
4/16/2001	< 1	< 5	< 5	< 5	< 5	1.86	139	13.8	< 16.1	32.7	< 10.7	C011060087
4/16/2001	< 1	< 5	< 5	< 5	< 5	.231	128	13.8	< 11.1	30.1	< 5.23	C011060088
7/24/2001	< 1	< 5	< 5	< 5	< 5	< .2	106	13.1	< -.871	54.4	< 7.08	C012060010
10/15/2001	< 1	< 5	< 5	< 5	< 5	< .2	107	12.8	< 21.9	37.9	< 5.53	C012880075

C-9

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C-746-K Landfill Monitoring

Water Quality Records for

MW301

Sample Date Range: 5/31/1994 - 10/31/2013

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	
1/25/2002	< 1	< 5	< 5	< 5	< 5	< .2	146	14.5	< 3.69	< 28.3	< 2.51	C020250055
1/25/2002	< 1	< 5	< 5	< 5	< 5	< .2	154	15.4	< -2.44	51.6	< 6.3	C020250056
4/10/2002	< 1	< 5	< 5	< 5	< 5	.317	172	16.2	< 19	< 5.09	< .617	C021010049
7/24/2002	< 1	< 5	< 5	< 5	< 5	< .2	186	15.4	< 36.1	< 23.5	17.8	C022060005
10/3/2002	3	< 5	< 5	< 5	< 5	< .002	< .2	14.5	< 5.72	46.8	< 15	C022760029
1/30/2003	< 1	< 5	< 5	< 5	< 5	.287	166	15.5	< -1.71	< 6.29	< -.324	C030310017
1/30/2003	< 1	< 5	< 5	< 5	< 5	4.62	203	16.1	< .197	< 3.65	< 3.3	C030310018
4/14/2003	< 1	< 5	< 5	< 5	< 5	1.03	232	17.2	< .227	< 37.1	< -.162	C031040077
7/30/2003	< 1	< 5	< 5	< 5	< 5	.71	218	15.4	< 32.9	50.2	< 2.84	C032110046
10/21/2003	< 1	< 5	< 5	< 5	< 5	< .2	257	17.4	< 9.47	< 31.4	< 0	C032950018
1/26/2004	< 1	< 5	< 5	< 5	< 5	.39	267	19.6	< 14.9	53.3	< 10.8	C040260080
1/26/2004	< 1	< 5	< 5	< 5	< 5	.577	266	19.3	< 17.7	73	< 11.7	C040260081
4/21/2004	< 1	< 5	< 5	< 5	< 5	< .2	238	18	< 9.42	< 42.4	< -3	C041130034
7/15/2004	< 1	5	5	< 5	< 5	< .2	277	19.8	< 17.3	< 40.3	< -12.4	C041970168
10/19/2004	< 1	< 5	< 5	< 5	< 5	< .2	152	13.7	< -32.8	< 33.7	< -1.56	C042940033
4/27/2005	< 1	< 5	< 5	< 5	< 5	< .2	232	20.1	< -.987	129	< -6.58	C051170050
10/25/2005	< 1	5.1	5.6	< 5	< 5	< .2	289	19.9	< -12.7	51.3	< 4.49	C052990008
4/11/2006	< 1	< 5	5.2	< 5	< 5	< .2	287	20.9	< 8.03	50.9	< -2.97	C061020010
4/11/2006	< 1	< 5	5.4	< 5	< 5	< .2	279	19.6	< 3.04	62	< 8.86	C061020011
10/23/2006	< 1	5.9	5.8	< 5	< 5	.76	295	20.5	< 13.7	< 31.7	< 15.3	C062960051
4/12/2007	< 1	< 5	< 5	< 5	< 5	2.42	265	15.8	< 7.86	60.8	< 4.66	C071030005
10/25/2007	< 1	3.6	3.1	< 1	< 1	1.06	117	8.42	< 1.59	39.3	< -9.49	C072980109
4/28/2008	< 1	< 1	2.9	< 5	< 1		192	15.3	< 25.6	45.9	< -3.1	C081190047
4/28/2008	< 1	< 1	2.8	< 5	< 1		185	14.7	< 20.4	79.9	< -4.91	C081190048
10/29/2008	< 1	3.8	3.9	< 5	< 1	< .2	240	16.3	< 7.81	77.1	< 5.16	C08304013003
4/30/2009	< 1	3.8	3.9	< 1	< 1	< .2	228	15.9	< 7.32	71	< 7.74	C09120015002
4/30/2009	< 1	4.5	4.4	< 1	< 1	< .2	160	14.5	< 17.8	85	< 12.3	C09120015003
10/19/2009	3.8	5.5	4.8	< 1	< 1	< .2	208	14	< .393	58.6	< -1.75	C09292035003
4/20/2010	< 1	< 5	3	< 5	< 1	< .2	198	13.8	< 11.5	50.7	< -8.41	C10110009004
4/20/2010	< 1	< 5	2.9	< 5	< 1	< .2	196	13.7	< -7.51	45.2	< -8.84	C10110009005
10/13/2010	< 1	< 5	1.9	< 5	< 1	< .4	133	11	< -.711	56.4	< -4.72	C10286021005
4/26/2011	< 1	< 5	< 1	< 5	< 1	.247	176	14.5	< 8.21	68	< -13.4	C11116009002

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C-746-K Landfill Monitoring

Water Quality Records for

Sample Date Range: 5/31/1994 - 10/31/2013

MW301

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
10/19/2011	< 1	< 5	1.7	< 1	< 1	.298	183	11.8	< 8.7	86.5	< 4.3	C11292015003
4/24/2012	< 1	2.1	< 1	< 1	< 1	< 2	119	9.63	< 5.31	< 35.7	< 2.86	C12115011002
10/29/2012	< 1	< 1	< 1	< 1	< 1	6.98	163	8.35	< 15.1	58.9	< 1.99	C12303019004
4/23/2013	< 1	1.2	1.4	< 1	< 1	.216	120	9.8	< 10.1	< 46.9	< .0556	C13113007002
10/21/2013	< 1	2.4	2.2	< 1	< 1	10.9	200	10.7	< 6.61	< 54.4	< 8.32	C13294037004

C-11

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C-746-K Landfill Monitoring

Water Quality Records for

Sample Date Range: 5/31/1994 - 10/31/2013

MW302

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	
6/1/1994	< 5	< 5	< 5	< 5		< .415	.238	.189	< 3.09	< 3.11	< .94	3220301
3/21/1995	< 1	< 5	< 5	< 5	< 5		2.6	.26	2.2	5	8	950322-048
7/12/1995	< 1	< 5	< 5	< 5	< 5		.702	.175	4	13	6	950713-149
9/11/1995	< 1	< 5	< 5	< 5	< 5	1.3	1.06	.139	7.2	2	13	950912-007
12/7/1995	< 1	< 5	< 5	< 5	< 5		2.39	.087	6.2	3	2	951211-018
2/13/1996	< 1	< 5	< 5	< 5	< 5	2.14	1.68	.08	-6	-2	1	960214-054
2/13/1996	< 1	< 5	< 5	< 5	< 5	2.61	2.14	.099	-5.4	-4	0	960214-058
5/9/1996	< 1	< 5	< 5	< 5	< 5	< .75	< .3	.041	.9	17	6	960513-009
8/20/1996	< 1	< 5	< 5	< 5	< 5	< .75	< .3	.058	4.4	6	6	960821-022
8/20/1996	< 1	< 5	< 5	< 5	< 5	< .75	< .3	< .05	12.3	5	11	960821-020
2/10/1997	< 1	< 5	< 5	< 5	< 5	< .75	.31	.157	-.2	1	0	970211-011
2/10/1997	< 1	< 5	< 5	< 5	< 5	< .75	1.64	.19	2.9	3	0	970211-010
5/13/1997	< 1	< 5	< 5	< 5	< 5	< .75	< .3	.099	5.9	3	10	970514-044
8/7/1997	< 1	< 5	< 5	< 5	< 5	< 1	< .25	< .1	2.8	1	0	970807-144
8/7/1997	< 1	< 5	< 5	< 5	< 5	< 1	< .25	.12	1.6	1	2	970807-145
11/10/1997	< 1	< 5	< 5	< 5	< 5	1.02	1.09	.11	9.8	14	0	971110-118
2/5/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .5	< .1	< 1.2	< 4	< -2	C980370103
2/5/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .5	.114	< 1.8	< 0	< 5	C980370102
5/20/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .25	.167	< -.9	8	< 2.8	C981400087
5/20/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .25	.164	< 2.3	37	< 2.1	C981400088
8/11/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .2	.173	< 7.6	11	< -7.6	C982240043
8/11/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .2	.143	< 1	< 4	< -1	C982240044
11/16/1998	< 1	< 5	< 5	< 5	< 5	< 1	< .2	.1	< 3.6	8.03	< -7.2	C983200082
1/25/1999	< 1	< 5	< 5	< 5	< 5	< 1	< .2	.11	< .86	< .3	< -19.8	C990250156
4/19/1999	< 1	< 5	< 5	< 5	< 5	.22	< .2	.122	< 1.67	< 4.72	< -18.5	C991090062
7/15/1999	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.157	< .82	< -20.12	< 5.04	C991960148
10/14/1999	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.069	< 4.18	< 3.33	< -1.15	C992870107
1/13/2000	< 1	< 5	< 5	< 5	< 5	< .2	.381	.05	< .05	< 5.09	< 1.59	C000130119
4/27/2000	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.11	< 4.56	< 2.89	< -21.3	C001190011
4/27/2000	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.118	< 1.91	< 4.14	< -16.4	C001190012
7/27/2000	< 1	< 5	< 5	< 5	< 5	.203	.315	.185	< 6.72	< 4.08	< -2.03	C002090104
10/16/2000	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.08	< 2.79	22.54	< 5.95	C002910046

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C-746-K Landfill Monitoring

Water Quality Records for

MW302

Sample Date Range: 5/31/1994 - 10/31/2013

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
1/10/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.101	< -4.7	< 3.52	< 2.65	C010100095
1/10/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.112	< .329	< 5.56	< 8.77	C010100096
4/16/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.068	< -4.37	< 1	< 12.2	C011060086
7/24/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.053	< 1.09	< 1.72	< 12.4	C012060011
10/15/2001	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.207	< 2.32	< .344	< 4.48	C012880076
1/22/2002	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.047	< 5.75	< 1.7	< 11.5	C020220047
4/10/2002	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.054	< 5.56	< -1.95	< 4.88	C021010050
4/10/2002	2	< 5	< 5	< 5	< 5	< .2	< .2	.062	< 2.37	< -2.75	< -3.64	C021010051
7/24/2002	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.056	9.53	< 2.21	< 14.7	C022060006
10/3/2002	< 1	< 5	< 5	< 5	< 5	< .002	< .002	.0688	< 9.5	< 2.76	< 10.1	C022760028
1/30/2003	< 1	< 5	< 5	< 5	< 5	.639	.762	.144	< -.209	< 1.74	< 2.05	C030310021
4/15/2003	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.0607	< 2.62	< 1.04	< 4.54	C031050066
4/15/2003	< 1	< 5	< 5	< 5	< 5	< .2	< .2	.0609	< -4.39	43.1	16.2	C031050067
7/30/2003	< 1	< 5	< 5	< 5	< 5	< .2	.523	1.3	< 6.9	< 4.11	< -9.55	C032110047
10/21/2003	< 1	< 5	< 5	< 5	< 5	< .2	5.77	1.88	< 4.13	< 2.82	< -6.62	C032950016
1/26/2004	< 1	< 5	< 5	< 5	< 5	< .2	2.64	1.98	< -3.37	9.48	< 6.25	C040260078
4/21/2004	< 1	< 5	< 5	< 5	< 5	< .2	.611	1.63	< 6.89	< -1.62	< -.819	C041130035
4/21/2004	< 1	< 5	< 5	< 5	< 5	< .2	.302	1.71	< -1.61	< -.897	< 5.4	C041130036
7/15/2004	< 1	< 5	< 5	< 5	< 5	< .2	1.18	1.63	< 5.85	< -.825	< -12.4	C041970169
10/19/2004	< 1	< 5	< 5	< 5	< 5	< .2	.244	1.06	< -4.94	< 3.65	< 4.4	C042940032
4/27/2005	< 1	< 5	< 5	< 5	< 5	< .2	.154	.708	< .394	< .723	< 15.5	C051170051
4/27/2005	< 1	< 5	< 5	< 5	< 5	< .2	< .1	.675	< 1.48	< 3.76	< 15.3	C051170052
10/25/2005	< 1	< 5	< 5	< 5	< 5	< .2	< .1	1.35	< -1.17	< .46	< 9.83	C052990009
4/11/2006	< 1	< 5	< 5	< 5	< 5	.418	1.02	.572	< -1.64	< 3.54	< .914	C061020008
10/26/2006	< 1	< 5	< 5	< 5	< 5	.347	.479	.99	< -.702	< 3.23	< 8.62	C062990102
10/26/2006	< 1	< 5	< 5	< 5	< 5	< .2	.128	.986	< -3.44	< 2.09	< 8.97	C062990103
4/12/2007	< 1	< 5	< 5	< 5	< 5	< .2	.131	.345	< 4.96	< 3.59	< 13.1	C071030006
10/25/2007	< 1	< 1	< 1	< 1	< 1	< .2	.317	.622	< 3.48	< 4.7	< -3.38	C072980110
4/28/2008	< 1	< 1	< 1	< 5	< 1		< .1	.263	< 3.99	< -.184	< -5.34	C081190049
10/29/2008	< 1	< 1	< 1	< 5	< 1	.23	.281	.319	< 1.16	< .994	< 10.6	C08304013004
4/30/2009	< 1	< 1	< 1	< 1	< 1	< .2	< .1	.215	< 1.78	< 1.17	< 1.39	C09120016001
10/19/2009	2.1	< 1	< 1	< 1	< 1	.493	.425	.433	< .942	< 1.51	< -6.33	C09292035004

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C-746-K Landfill Monitoring

Water Quality Records for

Sample Date Range: 5/31/1994 - 10/31/2013

MW302

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Lab Sample ID
4/20/2010	< 1	< 5	< 1	< 5	< 1	.933	1.5	1.01	< 1.13	< 1.46	< -.868	C10110009001
10/13/2010	< 1	< 5	< 1	< 5	< 1	< .4	.21	.245	< 4.95	< 2.61	< 2.66	C10286021004
4/26/2011	< 1	< 5	< 1	< 5	< 1	< .2	.112	.095	< .402	< 3.67	< -.163	C11116009003
10/19/2011	< 1	< 5	< 1	< 1	< 1	< .2	.235	.208	< 1.9	6.89	< 2.99	C11292015004
4/24/2012	< 1	< 1	< 1	< 1	< 1	< .4	.333	.163	< .867	< .188	< 3.89	C12115011003
10/29/2012	< 1	< 1	< 1	< 1	< 1	< .2	< .1	.0704	< .308	< -.308	< -6.18	C12303019001
4/23/2013	< 1	< 1	< 1	< 1	< 1	< .2	< .1	.0804	< 3.53	< 1.37	< -2.15	C13113007003
10/21/2013	< 1	< 1	< 1	< 1	< 1	< .2	< .1	.19	< 2.39	< 2.41	< 1.2	C13294037001

C-14

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C-746-K Landfill Monitoring

Water Quality Records for

Sample Date Range: 5/31/1994 - 10/31/2013

MW344

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	
5/20/1998	< 1	< 5	< 5	< 5	< 5	5.43	11.2	.663	< 4	24	< -2.8	C981400089
8/11/1998	< 1	< 5	< 5	< 5	< 5	7.65	13.1	.946	< 3.2	11	< -1.3	C982240042
11/16/1998	< 1	< 5	< 5	< 5	< 5	2.65	12.2	.83	< 5.66	8.45	< 6.8	C983200078
11/16/1998	< 1	< 5	< 5	< 5	< 5	2.43	9.51	.65	< 2.27	9.59	< -3.1	C983200079
1/25/1999	< 1	< 5	< 5	< 5	< 5	8.54	13	.79	< .1	14.19	< 8.4	C990250157
4/19/1999	< 1	< 5	< 5	< 5	< 5	9.26	16.1	.827	< 4.05	8.24	< -9.06	C991090063
7/15/1999	< 1	< 5	< 5	< 5	< 5	3.21	13.6	.756	< 3.29	< 3.03	< 7.03	C991960149
10/14/1999	< 1	< 5	< 5	< 5	< 5	8.76	13.1	.871	5.38	< 5.75	< 7.28	C992870108
1/13/2000	< 1	< 5	< 5	< 5	< 5	1.35	9.06	.565	< .74	12.89	< 6.94	C000130121
4/27/2000	< 1	< 5	< 5	< 5	< 5	3.68	10.8	.523	< 2.81	19.31	< -2.65	C001190013
7/27/2000	< 1	< 5	< 5	< 5	< 5	1.92	8.16	.531	7.68	12.31	< 10.4	C002090102
7/27/2000	< 1	< 5	< 5	< 5	< 5	1.27	6.22	.404	< 4.3	14.19	< -6.62	C002090103
10/16/2000	< 1	< 5	< 5	< 5	< 5	1.5	5.4	.37	< -.9	21.88	< 1.57	C002910048
10/16/2000	< 1	< 5	< 5	< 5	< 5	1.92	6.81	.525	< 1.79	15.94	< .674	C002910047
1/10/2001	< 1	< 5	< 5	< 5	< 5	4.4	6.02	.396	< .529	< 1.5	< 4.46	C010100099
4/16/2001	< 1	< 5	< 5	< 5	< 5	2.3	7.02	.411	< 1.98	6.24	< -7.79	C011060089
7/19/2001	< 1	< 5	< 5	< 5	< 5	1.83	5.1	.355	< -2.34	< 1.95	< 7.79	C012010060
7/24/2001	46	100	59	< 50	< 50	15.8	315	27.7	< 32.1	< 25.1	< 12.4	C012060009
10/15/2001	< 1	< 5	< 5	< 5	< 5	.655	3.55	.399	< 4.6	< 2.4	< -2	C012880066
10/15/2001	< 1	< 5	< 5	< 5	< 5	.797	3.79	.329	< .901	9.99	< -8.48	C012880067
1/22/2002	< 1	< 5	< 5	< 5	< 5	1.37	5.33	.366	< 5.38	6.15	< 6.69	C020220045
4/10/2002	< 1	< 5	< 5	< 5	< 5	1.63	7.58	.378	< -.899	< 2.73	< 4.04	C021010052
7/24/2002	< 1	< 5	< 5	< 5	< 5	2.07	5.44	.49	10.2	< 6.95	< 4.82	C022060007
10/3/2002	< 1	< 5	< 5	< 5	< 5	.00323	.00478	.366	< 2.54	< 2.37	< 13.8	C022760031
10/3/2002	< 1	< 5	< 5	< 5	< 5	.00423	.00456	.323	< 5.83	< 5.09	18.5	C022760030
1/30/2003	< 1	< 5	< 5	< 5	< 5	1.68	4.16	.378	< -2.18	< .631	< 2	C030310019
4/14/2003	< 1	< 5	< 5	< 5	< 5	3.92	3.28	.268	< .0183	< 8.74	20.4	C031040078
7/30/2003	< 1	< 5	< 5	< 5	< 5	21.9	35.4	6.18	< 12.1	< 6.22	< 12.3	C032110048
10/21/2003	< 1	< 5	< 5	< 5	< 5	4.19	32.6	.388	< 5.8	< 4.3	< 3.31	C032950014
10/21/2003	< 1	< 5	< 5	< 5	< 5	3.63	34.8	3.99	< 3.45	< 3.49	< -1.39	C032950015
1/26/2004	< 1	< 5	< 5	< 5	< 5	4.22	18.2	2.32	10.1	7.74	< 5.32	C040260082
4/21/2004	< 1	< 5	< 5	< 5	< 5	2.91	13.3	1.23	< 2.26	< 1.95	< -4.04	C041130037

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NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

C-746-K Landfill Monitoring

Water Quality Records for

Sample Date Range: 5/31/1994 - 10/31/2013

MW344

Sample Date	Organic Laboratory Analysis Results					Inorganic Laboratory Analysis Results			Radiological Laboratory Analysis Results			Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Al mg/L	Fe mg/L	Mn mg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	
7/15/2004	< 1	< 5	< 5	< 5	< 5	< .2	12.9	1.61	< .82	< 2.89	< -8.52	C041970170
10/19/2004	< 1	< 5	< 5	< 5	< 5	2.51	13.2	1.56	< -.79	9.99	< -3.88	C042940034
10/19/2004	< 1	< 5	< 5	< 5	< 5	2.99	11.8	1.63	< -2.19	< .172	< 4.34	C042940035
4/27/2005	< 1	< 5	< 5	< 5	< 5	3.67	7.9	.692	< .794	5.87	< 10.7	C051170053
10/25/2005	< 1	< 5	< 5	< 5	< 5	1.49	5.25	.714	< 2.1	< 5.13	< 8.07	C052990010
4/11/2006	< 1	< 5	< 5	< 5	< 5	2.55	6.79	.419	< 2.13	< 5.53	< .686	C061020012
10/26/2006	< 1	< 5	< 5	< 5	< 5	4.32	5.55	.472	< 2.45	< 5.05	< 13.9	C062990104
4/12/2007	< 1	< 5	< 5	< 5	< 5	13.5	7.9	.279	< 6.28	< 4.88	< -3.22	C071030003
4/12/2007	< 1	< 5	< 5	< 5	< 5	7.87	6.28	.286	8.77	< 7.36	< 7.1	C071030004
10/25/2007	< 1	< 1	< 1	< 1	< 1	5.46	4.1	.217	< 2.24	< 2.43	< 1.88	C072980185
4/28/2008	< 1	< 1	< 1	< 5	< 1		.947	.183	< 1.35	< 4.02	< 2.67	C081200002
10/29/2008	< 1	< 1	< 1	< 5	< 1	3.36	3.64	.256	< 2.88	< 4.82	< .645	C08304013005
4/30/2009	< 1	< 1	< 1	< 1	< 1	4	3.56	.19	< 2.62	5.57	< 10.1	C09120016002
10/19/2009	1.3	< 1	< 1	< 1	< 1	3.55	3.04	.299	< 1.6	< 4.25	< -.283	C09292035005
4/20/2010	< 1	< 5	< 1	< 5	< 1	11.5	22	.262	9.17	8.43	< 10	C10110009003
10/13/2010	< 1	< 5	< 1	< 5	< 1	9.93	13.8	.233	8.01	9.96	< -7.65	C10286021001
4/26/2011	< 1	< 5	< 1	< 5	< 1	4.7	8.17	.154	< -.331	< 5.11	< -7.02	C11116009004
4/26/2011	< 1	< 5	< 1	< 5	< 1	4.48	7.89	.155	< .101	5.63	< -3.92	C11116009005
10/19/2011	< 1	< 5	< 1	< 1	< 1	2.86	7.14	.188	< 2.34	9.7	< 2.78	C11292015005
4/24/2012	< 1	< 1	< 1	< 1	< 1	4.39	7.54	.167	< 3.64	< 3.59	< -.511	C12115011004
4/24/2012	< 1	< 1	< 1	< 1	< 1	3.92	6.46	.118	< 6.28	< 5.53	< 7.1	C12115011005
10/29/2012	< 1	< 1	< 1	< 1	< 1	2.12	3.89	.143	< .405	< 3.49	< -8.39	C12303019005
4/23/2013	< 1	< 1	< 1	< 1	< 1	2.65	4.66	.116	< 4.97	< 3.39	< -3.25	C13113014001
4/23/2013	< 1	< 1	< 1	< 1	< 1	2.77	3.82	.107	< 1.89	< 3.93	< -1.43	C13113014002
10/21/2013	< 1	< 1	< 1	< 1	< 1	8.79	6.63	.185	< 4.86	4.56	< 4.93	C13294037005

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NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

APPENDIX D

ADMINISTRATIVE RECORD AND POST-DECISION RECORD INDICES

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Paducah Documents Added to the Administrative Record Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
ARFBGOU	08/20/84	KY-13-0538	EXCAVATION OF TRICHLOROETHYLENE DRUMS FROM C-749 (INTERNAL CORRESPONDENCE)	MMES	MMES	**No**	ENV 1.A-00456
ARFBGOU	09/03/13	KY-13-0535,DOE/LX/07-1275&D2	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE PROPOSED PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT SOURCE AREAS SWMUs 5 AND 6 (DOE/LX/07-1275&D2) AND SUBSEQUENT DOCUMENTS	KDWM	DOE-PPPO	**No**	ENV 1.A-00457
ARFBGOU	09/27/13	KY-13-0570,DOE/LX/07-1275&D2	CONDITIONAL APPROVAL OF THE PROPOSED PLAN FOR THE BURIAL GROUNDS OU, SWMUs 5 & 6 AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1275&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00496
ARFBGOU	09/30/13	KY-13-0566,DOE/LX/07-1275&D2	EXTENSION REQUEST FOR THE PROPOSED PLAN FOR SOLID WASTE MANAGEMENT UNITS 5 AND 6 OF THE BURIAL GROUNDS OPERABLE UNIT (DOE/LX/07-1275&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00497
ARFBGOU	10/17/13	KY-13-0575,DOE/LX/07-1275&D2	CONDITIONAL APPROVAL OF THE PROPOSED PLAN FOR THE BURIAL GROUNDS OU, SWMUs 5 & 6 AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1275&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00498
ARFCC	09/18/13	KY-13-0551,DOE/LX/07-0244&D2	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (ARFCC)	DOE-PPPO	USEPA-4	**No**	ENV 1.A-00506
ARFCC	09/19/13	PPPO-02-2064498-13,DOE/LX/07-0244&D2	MILESTONE MODIFICATION FOR THE WASTE DISPOSAL ALTERNATIVES EVALUATION FEDERAL FACILITY AGREEMENT DOCUMENTS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00481
ARFCC	09/20/13	KY-13-0552,DOE/LX/07-0244&D2	EXTENSION REQUEST FOR REVIEW OF THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00482
ARFCC	09/26/13	KY-13-0563,DOE/LX/07-0244&D2	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION AND SUBSEQUENT DOCUMENTS (DOE/LX/07-0244&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00484
ARFCC	09/26/13	KY-13-0562,DOE/LX/07-0244&D2	EPA NOTIFICATION FOR EXTENSION FOR REVIEW OF REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2) PGDP	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00483
ARFCC	10/08/13	KY-14-0573,DOE/LX/07-0244&D2	EXTENSION REQUEST FOR REVIEW OF THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00507
ARFCC	10/18/13	PPPO-02-2113632-14,DOE/LX/07-0244&D2	MILESTONE MODIFICATION FOR THE CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION FEDERAL FACILITY AGREEMENT DOCUMENTS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00509
ARFCC	10/18/13	KY-14-0585,DOE/LX/07-0244&D2	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (ARFCC)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00508

Paducah Documents Added to the Administrative Record Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
ARFCC	10/22/13	KY-14-0584,DOE/LX/07-0244&D2	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION AND SUBSEQUENT DOCUMENTS (DOE/LX/07-0244&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00510
ARFCC	10/23/13	KY-14-0588,DOE/LX/07-0244&D2	CONDITIONAL CONCURRENCE FOR THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATIONS (DOE/LX/07-0244&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00511
ARFCC	10/30/13	KY-14-0590,DOE/LX/07-0244&D2	EPA NOTIFICATION FOR EXTENSION FOR REVIEW OF REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2) PGDP	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00512
ARFCC	11/19/13	PPPO-02-2160102-14,DOE/LX/07-0244&D2	MILESTONE MODIFICATION FOR THE CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION FEDERAL FACILITY AGREEMENT DOCUMENTS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00526
ARFREF	08/06/13	KY-14-0587	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (2013 SITE MANAGEMENT PLAN)	DOE-PPPO	USEPA-4,KDWM	**No**	ENV 1.A-00492
ARFREF	08/22/13	KY-13-0550	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (D&D C-340 & C-410)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00493
ARFREF	08/22/13	PPPO-02-2038156-13	PADUCAH FEDERAL FACILITY AGREEMENT MODIFICATION FISCAL YEAR 2013 SITE MANAGEMENT PLAN, ENFORCEABLE COMMITMENTS, AND LIST OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERNS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00459
ARFREF	08/29/13	PPPO-02-1969283-13B,DOE/LX/07-1289&D1	TRANSMITTAL OF THE FIVE-YEAR REVIEW FOR REMEDIAL ACTIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, DOE/LX/07-1289&D1	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00494
ARFREF	09/03/13	KY-13-0534	PADUCAH FEDERAL FACILITY AGREEMENT MODIFICATION-FISCAL YEAR 2013 SITE MANAGEMENT PLAN, ENFORCEABLE COMMITMENTS AND LIST OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN (APPENDICES B, C, AND G)	KDWM	DOE-PPPO	**No**	ENV 1.A-00460
ARFREF	09/06/13	KY-13-0537,DOE/LX/07-0107&D2/R2/V1	APPROVAL OF THE METHODS FOR CONDUCTING RISK ASSESSMENTS AND RISK EVALUATIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT (VOLUME 1: HUMAN HEALTH) (DOE/LX/07-0107&D2/R2/V1)	KDWM	DOE-PPPO	**No**	ENV 1.A-00495
ARFREF	09/19/13	KY-13-0548	[KDWM] APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR SUBMITTAL OF TH D1 DECONTAMINATION AND DECOMMISSIONING OPERABLE UNIT COMPLETION NOTIFICATION LETTER	KDWM	DOE-PPPO	**No**	ENV 1.A-00499

Paducah Documents Added to the Administrative Record Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
ARFREF	09/20/13	PPPO-02-2065403-13,DOE/LX/07-1278/V1	TRANSMITTAL OF REPLACEMENT PAGES FOR APPENDICES C, E, AND F OF THE U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE FIRST HALF OF FISCAL YEAR 2012 (DOE/LX/07-1278/V1)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00501
ARFREF	09/20/13	PPPO-02-2064611-13,DOE/LX/07-0366/V1	TRANSMITTAL OF REPLACEMENT PAGES FOR APPENDICES C, E, AND F OF THE U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE FIRST HALF OF FISCAL YEAR 2011 (DOE/LX/07-0366/V1)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00500
ARFREF	09/20/13	PPPO-02-2064543-13,DOE/LX/07-1278/V2	TRANSMITTAL OF REPLACEMENT PAGES FOR APPENDICES C, E, AND F OF THE U.S. DEPT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE SECOND HALF OF FISCAL YEAR 2012 PADUCAH, KY (DOE/LX/07-1278/V2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00462
ARFREF	09/20/13	PPPO-02-2064393-13,DOE/LX/07-0366/V2	TRANSMITTAL OF REPLACEMENT PAGES FOR APPENDICES C, E, AND F OF THE U.S. DEPT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE SECOND HALF OF FISCAL YEAR 2011 PADUCAH, KY (DOE/LX/07-0366/V2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00461
ARFREF	10/22/13	KY-14-0586,DOE/LX/07-2099&D2/R8	EPA APPROVAL OF THE COMMUNITY RELATIONS PLAN UNDER THE FEDERAL FACILITY AGREEMENT AT THE U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT, (DOE/LX/07-2099&D2/R8)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00518
ARFREF	11/01/13	KY-14-0592,DOE/LX/07-1289&D1	EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS TO THE FIVE-YEAR REVIEW OF REMEDIAL ACTIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-1289&D1)	KDWM	DOE-PPPO	**No**	ENV 1.A-00519
ARFREF	11/07/13	KY-14-0596	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATIONS AND EXTENSIONS AS A RESULT OF PARTIAL GOVERNMENT SHUTDOWN	KDWM	DOE-PPPO	**No**	ENV 1.A-00520
ARFREF	11/08/13	KY-14-0597,DOE/LX/07-1289&D1	EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS TO THE FIVE-YEAR REVIEW OF REMEDIAL ACTIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-1289&D1)	KDWM	DOE-PPPO	**No**	ENV 1.A-00521
ARFREF	11/14/13	PPPO-02-2157260-14B,DOE/LX/07-1290/V2	U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE SECOND HALF OF FISCAL YEAR 2013, PADUCAH, KENTUCKY (DOE/LX/07-1290/V2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00527
ARFREF	11/15/13	KY-14-0602,DOE/LX/07-1289/D1	EXTENSION REQUEST FOR COMMENT SUBMITTAL FOR THE FIVE-YEAR REVIEW FOR REMEDIAL ACTIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-1289&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00529
ARFREF	11/15/13	KY-14-0601,DOE/LX/07-1289/D1	EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS TO THE FIVE-YEAR REVIEW OF REMEDIAL ACTIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-1289&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00528

Paducah Documents Added to the Administrative Record Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
ARFSOU	06/01/10	DOE/LX/07-0120&D2/R2	WORK PLAN FOR THE SOILS OPERABLE UNIT REMEDIAL INVESTIGATION FEASIBILITY STUDY AT PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY	PRS	DOE-PPPO	**No**	ENV 1.A-00490

Paducah Documents Added to the Post-Decision Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
6PHASE-PD	08/08/13	KY-13-0514,DOE/LX/07-1263&D2	[KDWM] APPROVAL OF THE EXTENSION REQUEST FOR INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT PHASE IIb REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING (DOE/LX/07-1263&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00467
6PHASE-PD	08/19/13	PPPO-02-2045081-13,DOE/LX/07-1263&D2	PADUCAH FEDERAL FACILITY AGREEMENT-EXTENSION OF INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP (DOE/LX/07-1263&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00485
6PHASE-PD	08/19/13	KY-13-0519,DOE/LX/07-1263&D2	EPA APPROVAL OF DOE'S EXTENSION REQUEST FOR INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP (DOE/LX/07-1263&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00468
6PHASE-PD	08/20/13	KY-13-0522,DOE/LX/07-1263&D2	[KDWM] APPROVAL OF THE EXTENSION REQUEST FOR INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT PHASE IIB REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING (DOE/LX/07-1263&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00469
6PHASE-PD	08/28/13	PPPO-02-2053089-13,DOE/LX/07-1263&D2	PADUCAH FEDERAL FACILITY AGREEMENT-EXTENSION OF INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP (DOE/LX/07-1263&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00470
6PHASE-PD	08/29/13	KY-13-0531,DOE/LX/07-1263&D2	APPROVAL OF EXTENSION REQUEST FOR INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT PHASE IIb REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT C-400 CLEANING BUILDING (DOE/LX/07-1263&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00486
6PHASE-PD	08/30/13	KY-13-0532,DOE/LX/07-1271&D2/R2	CERTIFIED PAGE CHANGES FOR THE REMEDIAL ACTION WORK PLAN FOR PHASE IIA OF THE INTERIM REMEDIAL ACTION FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING (DOE/LX/1271&D2/R2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00487
6PHASE-PD	09/03/13	KY-13-0533,DOE/LX/07-1271&D2/R2	EPA COMMENTS ON CERTIFIED PAGE CHANGES FOR THE REMEDIAL ACTION WORK PLAN FOR PHASE IIa THE INTERIM REMEDIAL ACTION FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT C-400 CLEANING BUILDING AT PGDP (DOE/LX/1271&D2/R2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00488
6PHASE-PD	09/12/13	PPPO-02-2074916-13,DOE/LX/07-1263&D2	PADUCAH FEDERAL FACILITY AGREEMENT-EXTENSION OF INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP (DOE/LX/07-1263&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00471

Paducah Documents Added to the Post-Decision Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
6PHASE-PD	09/18/13	KY-13-0549,DOE/LX/07-1263&D2	[KDWM] APPROVAL OF THE EXTENSION REQUEST FOR INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT PHASE IIb REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING (DOE/LX/07-1263&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00472
6PHASE-PD	09/27/13	PPPO-02-2092260-13,DOE/LX/07-1263&D2	PADUCAH FEDERAL FACILITY AGREEMENT-EXTENSION OF INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP (DOE/LX/07-1263&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00513
6PHASE-PD	10/01/13	KY-13-0571,DOE/LX/07-1263&D2	APPROVAL OF THE EXTENSION REQUEST FOR INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT PHASE IIb REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING (DOE/LX/07-1263&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00514
6PHASE-PD	10/10/13	PPPO-02-2104938-14,DOE/LX/07-1271&D2/R3	EXTENSION FOR SUBMITTAL OF THE CERTIFIED PAGE CHANGES FOR THE REMEDIAL ACTION WORK PLAN FOR PHASE IIa OF THE INTERIM REMEDIAL ACTION FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE AT THE C-400 CLEANING BUILDING (DOE/LX/07-1271&D2/R3)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00515
6PHASE-PD	10/18/13	PPPO-02-2077643-14B,DOE/LX/07-1294&D1	TRANSMITTAL OF THE TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT, AT PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, DOE/LX/07-1294&D1	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00516
6PHASE-PD	10/23/13	PPPO-02-2066530-13,DOE/LX/07-1271&D2/R3	TRANSMITTAL OF PAGE CHANGES FOR REMEDIAL ACTION WORK PLAN FOR PHASE IIa OF THE INTERIM REMEDIAL ACTION FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP (DOE/LX/07-1271&D2/R3)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00517
GW3-PD	08/19/13	PPPO-02-2001643-13,DOE/LX/07-1280&D2	TRANSMITTAL OF THE REMEDIAL ACTION WORK PLAN FOR OPTIMIZATION OF THE NORTHEAST PLUME INTERIM REMEDIAL ACTION AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, DOE/LX/07-1280&D2	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00489
GW3-PD	08/19/13	KY-13-0518,DOE/LX/07-1291&D2	EPA APPROVAL OF THE EXPLANATION OF SIGNIFICANT DIFFERENCES TO THE RECORD OF DECISION FOR THE INTERIM REMEDIAL ACTION OF THE NORTHEAST PLUME AT PGDP (DOE/LX/07-1291&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00463
GW3-PD	08/20/13	KY-13-0521,DOE/LX/07-1291&D2	APPROVAL OF THE EXPLANATION OF SIGNIFICANT DIFFERENCES TO THE RECORD OF DECISION FOR THE INTERIM REMEDIAL ACTION OF THE NORTHEAST PLUME (DOE/LX/07-1291&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00464
GW3-PD	08/22/13	PPPO-02-2021438-13,DOE/OR/07-1535&D3/R4	TRANSMITTAL OF THE OPERATION AND MAINTENANCE PLAN FOR THE NORTHEAST PLUME CONTAINMENT SYSTEM INTERIM REMEDIAL ACTION AT PGDP (DOE/OR/07-1535&D3/R4)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00465

Paducah Documents Added to the Post-Decision Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
GW3-PD	09/18/13	KY-13-0545,DOE/LX/07-1280&D2	CONDITIONAL APPROVAL OF THE REMEDIAL ACTION WORK PLAN FOR OPTIMIZATION OF THE NORTHEAST PLUME INTERIM REMEDIAL ACTION (DOE/LX/07-1280&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00466
GW3-PD	09/23/13	KY-13-0558,DOE/OR/07-1535&D3/R4	APPROVAL OF THE OPERATION AND MAINTENANCE PLAN FOR THE NORTHEAST PLUME CONTAINMENT SYSTEM INTERIM REMEDIAL ACTION (DOE/OR/07-1535&D3/R4)	KDWM	DOE-PPPO	**No**	ENV 1.A-00479
GW3-PD	09/23/13	KY-13-0557,DOE/LX/07-1280&D2	EPA CONDITIONAL CONCURRENCE OF THE REMEDIAL ACTION WORK PLAN FOR OPTIMIZATION OF THE NORTHEAST PLUME INTERIM REMEDIAL ACTION AT PGDP (DOE/LX/07-1280&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00478
GW3-PD	09/25/13	KY-13-0559,DOE/OR/07-1535&D3/R4	EPA APPROVAL OF THE OPERATION AND MAINTENANCE PLAN FOR THE NORTHEAST PLUME CONTAINMENT SYSTEM INTERIM REMEDIAL ACTION AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/OR/07-1535&D3/R4)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00480
GW3-PD	11/12/13	PPPO-02-2087251-14,DOE/LX/07-1280&D2	PADUCAH FEDERAL FACILITY AGREEMENT-NOTIFICATION OF INVOCATION OF INFORMAL DISPUTE RESOLUTION FOR THE CONDITIONAL CONCURRENCE OF THE REMEDIAL ACTION WORK PLAN FOR OPTIMIZATION OF THE NORTHEAST PLUME INTERIM REMEDIAL ACTION AT PGDP (DOE/LX/07-1280&D2)	DOE-PPPO	USEPA-4,KDWM	**No**	ENV 1.A-00523
GW3-PD	11/12/13	KY-14-0598,DOE/LX/07-1291&D2	RETRACTION OF THE AUGUST 19, 2013 EPA APPROVAL AND CONDITIONAL CONCURRENCE OF THE EXPLANATION OF SIGNIFICANT DIFFERENCES TO THE RECORD OF DECISION FOR THE INTERIM REMEDIAL ACTION OF THE NORTHEAST PLUME AT PGDP (DOE/LX/07-1291&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00522
GW3-PD	11/13/13	KY-14-0599,DOE/LX/07-1291&D2	RETRACTION OF THE APPROVAL OF THE EXPLANATION OF SIGNIFICANT DIFFERENCES TO THE RECORD OF DECISION FOR THE INTERIM REMEDIAL ACTION OF THE NORTHEAST PLUME (DOE/LX/07-1291&D2)	KDWM	DOE-PPPO	**No**	ENV 1.A-00524
SWP-PD	02/19/13	PPPO-02-1735707-13,DOE/LX/07-1276&D1	TRANSMITTAL OF THE 90% REMEDIAL DESIGN REPORT IN SITU TREATMENT USING DEEP SOIL MIXING FOR THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC COMPOUND SOURCE AT C-747-C OIL LANDFARM (SWMU 1) AT PGDP (DOE/LX/07-1276&D1)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00491
SWP-PD	08/21/13	KY-13-0524,DOE/LX/07-1287&D1	EXTENSION REQUEST FOR COMMENT SUBMITTAL TO THE GROUNDWATER OPERABLE UNIT SOUTHWEST PLUME REMEDIAL ACTION WORK PLAN (DOE/LX/07-1287&D1)	KDWM	DOE-PPPO	**No**	ENV 1.A-00454
SWP-PD	09/13/13	KY-13-0541,DOE/LX/07-1288&D1	EPA COMMENTS ON THE FINAL CHARACTERIZATION REPORT FOR SWMUs 211-A AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH KY. (DOE/LX/07-1288&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00455
SWP-PD	09/13/13	PPPO-02-2064633-13,DOE/LX/07-1287&D1	MILESTONE MODIFICATION FOR THE GROUNDWATER OPERABLE UNIT SOUTHWEST PLUME SOURCES FEDERAL FACILITY AGREEMENT DOCUMENTS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00458

Paducah Documents Added to the Post-Decision Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
SWP-PD	09/20/13	KY-13-0555,DOE/LX/07-1287&D1	SUBMITTAL OF COMMENTS TO THE REMEDIAL ACTION WORK PLAN FOR IN SITU SOURCE TREATMENT BY DEEP SOIL MIXING OF THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC SOURCE AT THE C-747 OIL LANDFARM (SWMU 1) (DOE/LX/07-1287&D1)	KDWM	DOE-PPPO	**No**	ENV 1.A-00474
SWP-PD	09/20/13	KY-13-0553	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D1 GROUNDWATER OPERABLE UNIT SOUTHWEST PLUME REMEDIAL ACTION WORK PLAN AND SUBSEQUENT DOCUMENTS	KDWM	DOE-PPPO	**No**	ENV 1.A-00473
SWP-PD	09/23/13	PPPO-02-2081085-13,DOE/LX/07-1276&D2/R1	TRANSMITTAL OF THE REMEDIAL DESIGN REPORT IN SITU SOURCE TREATMENT USING DEEP SOIL MIXING FOR THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC COMPOUND SOURCE AT THE C-747-C OIL LANDFARM (SWMU 1) AT PGDP (DOE/LX/07-1276&D2/R1)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00475
SWP-PD	09/24/13	KY-13-0561,DOE/LX/07-1288&D1	SUBMITTAL OF COMMENTS TO THE FINAL CHARACTERIZATION REPORT FOR SWMUs 211-A AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-1288&D1)	KDWM	DOE-PPPO	**No**	ENV 1.A-00476
SWP-PD	09/26/13	KY-13-0564,DOE/LX/07-1276&D2/R1	APPROVAL OF THE 100% REMEDIAL DESIGN REPORT IN SITU TREATMENT USING DEEP SOIL MIXING FOR THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC COMPOUND SOURCE AT THE C-747-C OIL LANDFARM (SWMU 1) (DOE/LX/07-1276&D2/R1)	KDWM	DOE-PPPO	**No**	ENV 1.A-00477
SWP-PD	10/21/13	KY-14-0583,DOE/LX/07-1276&D2/R1	EPA APPROVAL OF THE REMEDIAL DESIGN REPORT IN SITU SOURCE TREATMENT USING DEEP SOIL MIXING FOR THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC COMPOUND SOURCE AT PGDP (DOE/LX/07-1276&D2/R1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00503
SWP-PD	10/21/13	KY-14-0582,DOE/LX/07-1287&D1	EPA COMMENTS ON THE REMEDIAL ACTION WORK PLAN FOR IN SITU SOURCE TREATMENT BY DEEP SOIL MIXING OF THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC SOURCE AT C-747-C OIL LANDFARM (SWMU 1) AT PGDP (DOE/LX/07-1287&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00502
SWP-PD	11/01/13	KY-14-0593,DOE/LX/07-1288&D1	EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS TO THE FINAL CHARACTERIZATION NOTIFICATION FOR SWMUs 211-A AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-1288&D1)	KDWM	DOE-PPPO	**No**	ENV 1.A-00504
SWP-PD	11/04/13	KY-14-0594,DOE/LX/07-1288&D1	EXTENSION REQUEST FOR EPA COMMENTS ON THE FINAL CHARACTERIZATION NOTIFICATION FOR SWMUs 211-A AND 211-B AT PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00505

Paducah Documents Added to the Post-Decision Files- Fourth Quarter CY2013

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
SWP-PD	11/19/13	PPPO-02-2165521-14,DOE/LX/07-1287&D2	NOTIFICATION OF SCHEDULE EXTENSION AND MILESTONE MODIFICATION FOR THE REMEDIAL ACTION WORK PLAN FOR IN SITU SOURCE TREATMENT BY DEEP SOILS MIXING OF THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC COMPOUND SOURCE AT C-746-C OIL LANDFARM (SWMU 1) AT PGDP (DOE/LX/07-1287&D2 AND SUBSEQUENT SOUTHWEST PLUME SOURCES DOCUMENT	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00525

Paducah Documents Added to the Administrative Record Files- First Quarter CY2014

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
ARF4-1	02/04/14	KY-14-0678	EPA REQUEST TO MODIFY THE ADDENDUM TO THE WORK PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT REMEDIAL INVESTIGATION FEASIBILITY STUDY AT PGDP, SWMU 4 SAMPLING AND ANALYSIS PLAN (DOE/OR/07-2179&D2/A2/R2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00598
ARF4-1	02/07/14	KY-14-0679	REQUESTED MODIFICATION TO THE ADDENDUM TO THE WORK PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT REMEDIAL INVESTIGATION FEASIBILITY STUDY (SWMU 4 SAMPLING AND ANALYSIS PLAN) (DOE/OR/07-2179&D2/A2/R2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00599
ARFBGOU	11/15/13	KY-14-0615	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (DOE/LX/07-1275&D2)	DOE-PPPO	USEPA-4	**No**	ENV 1.A-00536
ARFBGOU	11/18/13	PPPO-02-2157699-14	MILESTONE MODIFICATION FOR THE BURIAL GROUNDS OPERABLE UNIT SOLID WASTE MANAGEMENT UNITS 5 AND 6 (DOE/LX/07-1275&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00534
ARFBGOU	11/26/13	KY-14-0610	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE PROPOSED PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT SOURCE AREAS SWMUs 5 AND 6 (DOE/LX/07-1275&D2) AND SUBSEQUENT DOCUMENTS	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00537
ARFBGOU	11/27/13	KY-14-0613	EXTENSION REQUEST FOR THE PROPOSED PLAN FOR SOLID WASTE MANAGEMENT UNITS 5 AND 6 OF THE BURIAL GROUNDS OPERABLE UNIT (DOE/LX/07-1275&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00538
ARFBGOU	12/12/13	KY-14-0654	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (BURIAL GROUNDS)	DOE-PPPO	USEPA-4	**No**	ENV 1.A-00589
ARFBGOU	12/16/13	PPPO-02-2181915-14	MILESTONE MODIFICATION FOR THE BURIAL GROUNDS OPERABLE UNIT SOLID WASTE MANAGEMENT UNITS 5 AND 6 (DOE/LX/07-1275&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00539
ARFBGOU	12/18/13	KY-14-0641	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE PROPOSED PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT SOURCE AREAS SWMUs 5 AND 6 (DOE/LX/07-1275&D2) AND SUBSEQUENT DOCUMENTS	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00540
ARFBGOU	12/20/13	PPPO-02-2188665-14	PROPOSAL FOR THE BURIAL GROUNDS OPERABLE UNIT SOLID WASTE MANAGEMENT UNITS 5 AND 6	DOE-PPPO,DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00541
ARFBGOU	01/16/14	PPPO-02-2202064-14	MILESTONE MODIFICATION FOR THE BURIAL GROUNDS OPERABLE UNIT SOLID WASTE MANAGEMENT UNITS 5 AND 6	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00590
ARFBGOU	01/27/14	KY-14-0672	REQUEST FOR EXTENSION OF REVIEW TIME FOR THE PROPOSED PLAN FOR SWMUs 5 AND 6 OF THE BURIAL GROUNDS OPERABLE UNIT (DOE/LX/07-1275&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00592
ARFBGOU	01/27/14	KY-14-0671	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE PROPOSED PLAN FOR THE BURIAL GROUNDS OPERABLE UNIT SOURCE AREAS SWMUs 5 AND 6 (DOE/LX/07-1275&D2) AND SUBSEQUENT DOCUMENTS	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00591

Paducah Documents Added to the Administrative Record Files- First Quarter CY2014

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
ARFC-340	12/10/13	PPPO-02-2035531-14,DOE/LX/07-1286&D1	REMOVAL ACTION REPORT FOR THE C-340 METALS REDUCTION PLANT AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1286&D1)	DOE-PPPO,DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00561
ARFCC	11/07/13	KY-14-0616	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (DOE/LX/07-0244&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00544
ARFCC	41600	KY-14-0609	EPA NOTIFICATION FOR EXTENSION FOR REVIEW OF REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2) PGDP	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00543
ARFCC	11/26/13	KY-14-0611	[KDWM] APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION AND SUBSEQUENT DOCUMENTS (DOE/LX/07-0244&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00542
ARFCC	12/02/13	KY-14-0629	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (DOE/LX/07-0244&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00545
ARFCC	12/04/13	PPPO-02-2174106-14	MILESTONE MODIFICATION FOR THE CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION FEDERAL FACILITY AGREEMENT DOCUMENTS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00576
ARFCC	41614	KY-14-0625	EPA NOTIFICATION FOR EXTENSION FOR REVIEW OF REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2) PGDP	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00546
ARFCC	12/09/13	KY-14-0628	[KDWM] APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION AND SUBSEQUENT DOCUMENTS (DOE/LX/07-0244&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00547
ARFCC	12/10/13	KY-14-0653	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (CERCLA WASTE DISPOSAL)	DOE-PPPO	USEPA-4	**No**	ENV 1.A-00577
ARFCC	41624	PPPO-02-2183860-14	MILESTONE MODIFICATION FOR THE CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION FEDERAL FACILITY AGREEMENT DOCUMENTS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00548
ARFCC	12/18/13	KY-14-0642	[KDWM] APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION AND SUBSEQUENT DOCUMENTS (DOE/LX/07-0244&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00549

Paducah Documents Added to the Administrative Record Files- First Quarter CY2014

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
ARFCC	41627	KY-14-0644	KY REQUEST FOR DISCUSSION REGARDING CERCLA WASTE DISPOSITION ALTERNATIVES EVALUATION SITE 9 (NORTHWEST CORNER PGDP) REQUEST FOR EXTENSION OF REVIEW TIME FOR D2 PROPOSED REMEDIAL ACTION PLAN FOR SWMUs 5 & 6	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00550
ARFCC	12/20/13	KY-14-0647	EPA NOTIFICATION FOR EXTENSION FOR REVIEW OF REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2) PGDP	USEPA-4	USEPA-4	**No**	ENV 1.A-00578
ARFCC	01/15/14	PPPO-02-2196892-14	MILESTONE MODIFICATION FOR THE CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION FEDERAL FACILITY AGREEMENT DOCUMENTS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00579
ARFCC	01/17/14	KY-14-0669	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION AND SUBSEQUENT DOCUMENTS (DOE/LX/07-0244&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00580
ARFCC	01/27/14	KY-14-0673	EPA NOTIFICATION FOR EXTENSION FOR REVIEW OF REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2), PADUCAH GASEOUS DIFFUSION PLANT	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00600
ARFCC	02/03/14	KY-14-0689	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT (APPENDICES C AND G)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00601
ARFCC	02/11/14	PPPO-02-2219395-14	MILESTONE MODIFICATION FOR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT WASTE DISPOSAL ALTERNATIVES EVALUATION FEDERAL FACILITY AGREEMENT DOCUMENTS	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00603
ARFCC	02/13/14	KY-14-0686	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION AND SUBSEQUENT DOCUMENTS (DOE/LX/07-0244&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00602
ARFCC	02/14/14	KY-14-0690	EPA NOTIFICATION FOR EXTENSION FOR REVIEW OF REMEDIAL INVESTIGATION FEASIBILITY STUDY REPORT FOR CERCLA WASTE DISPOSAL ALTERNATIVES EVALUATION (DOE/LX/07-0244&D2), PADUCAH GASEOUS DIFFUSION PLANT	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00604
ARFREF	07/01/13	DOE/OR/07-1707,DOE/LX/07-1284&D2/R1	FEDERAL FACILITY AGREEMENT AND SITE MANAGEMENT PLAN FOR PADUCAH GASEOUS DIFFUSION PLANT	DOE-OR	LATA	**No**	ENV 1.A-00605
ARFREF	10/28/13	KY-14-0681	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (SITE MANAGEMENT PLAN)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00582
ARFREF	10/28/13	KY-14-0606	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (SEMIANNUAL PROGRESS REPORT-SECOND HALF)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00581

Paducah Documents Added to the Administrative Record Files- First Quarter CY2014

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
ARFREF	12/02/13	KY-14-0692	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT (D1 SITE MANAGEMENT PLAN)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00606
ARFREF	12/02/13	PPPO-02-2173145-14	MILESTONE MODIFICATION FOR THE FISCAL YEAR 2014 SITE MANAGEMENT PLAN	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00563
ARFREF	12/04/13	KY-14-0624	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE 2014 SITE MANAGEMENT PLAN	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00564
ARFREF	12/05/13	PPPO-02-2164547-14,DOE/LX/07-1292&D1	TRANSMITTAL OF THE D1 FISCAL YEAR 2014 SITE MANAGEMENT PLAN, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1292&D1)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00565
ARFREF	12/16/13	KY-14-0636	SUBMITTAL OF COMMENTS TO THE FIVE-YEAR REVIEW OF REMEDIAL ACTIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT (DOE/LX/07-1289&D1)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00573
ARFREF	12/20/13	KY-14-0646	EPA COMMENTS ON THE FIVE-YEAR REVIEW FOR REMEDIAL ACTIONS AS THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX/07-1289&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00574
ARFREF	01/03/14	KY-14-0650	SUBMITTAL OF COMMENTS TO THE SITE MANAGEMENT PLAN PADUCAH GASEOUS DIFFUSION PLANT PADUCAH, KENTUCKY (DOE/LX/07-1292&D1)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00575
ARFREF	01/21/14	KY-14-0666	EPA COMMENTS ON THE SITE MANAGEMENT PLAN AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY (DOE/LX/07-1292&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00584
ARFREF	01/22/14	PPPO-02-2191605-14	TRANSMITTAL OF REPLACEMENT PAGE FOR TABLE 2 OF THE U.S. DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE FIRST HALF OF FISCAL YEAR 2013 PADUCAH, KENTUCKY (DOE/LX/07-1290/V1)	DOE-PPPO,DOE-PPPO	KDWM,USEPA-4,KDWM	**No**	ENV 1.A-00585
ARFREF	02/04/14	PPPO-02-2198705-14,DOE/LX/07-1292&D2	TRANSMITTAL OF THE D2 FISCAL YEAR 2014 SITE MANAGEMENT PLAN, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, ANNUAL REVISION-FY 2014 (DOE/LX/07-1292&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00586
ARFREF	02/06/14	PPPO-02-2219553-14	EXTENSION FOR SUBMITTAL OF THE D2 FIVE-YEAR REVIEW OF REMEDIAL ACTIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, DOE/LX/07-1289&D2	DOE-PPPO,DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00607
ARFREF	02/10/14	KY-14-0684	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE FIVE-YEAR REVIEW OF REMEDIAL ACTIONS AT PGDP (DOE/LX/07-1289&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00608
ARFREF	02/11/14	PPPO-02-2222972-14	FEDERAL FACILITY AGREEMENT PROJECT MANAGERS MEETING CONDUCTED AUGUST 14,2013	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00609
ARFREF	02/21/14	PPPO-02-2231318-14	EXTENSION OF THE PADUCAH FEDERAL FACILITY AGREEMENT INTEGRATED PRIORITY LIST AND ASSESSMENT OF BUDGET TARGETS ON SITE PRIORITIES	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00610
ARFREF,SWP-PD,GW3-PD	10/31/13	PPPO-02-2154112-14	MILESTONE MODIFICATIONS AND EXTENSIONS AS A RESULT OF PARTIAL GOVERNMENT SHUTDOWN	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00562

Paducah Documents Added to the Post-Decision Files- First Quarter CY2014

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
6PHASE-PD	10/23/13	PPPO-02-2145888-14	PADUCAH FEDERAL FACILITY AGREEMENT-EXTENSION OF INFORMAL DISPUTE RESOLUTION ON THE GROUNDWATER OPERABLE UNIT REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP (DOE/LX/07-1271&D2/R3)	DOE-PPPO,DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00530
6PHASE-PD	10/31/13	PPPO-02-2069014-14,DOE/LX/07-1263&D2	PADUCAH FEDERAL FACILITY AGREEMENT-RESOLUTION OF U.S. DOE NOTIFICATION OF INVOCATION OF INFORMAL DISPUTE ON THE GROUNDWATER OPERABLE UNIT REVISED PROPOSED PLAN FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT C-400 CLEANING BLDG (DOE/LX/07-1263&D2)	DOE-PPPO,DOE-PPPO	USEPA-4,KDWM	**No**	ENV 1.A-00531
6PHASE-PD	11/04/13	KY-14-0595	APPROVAL OF THE CERTIFIED PAGE CHANGES FOR THE REMEDIAL ACTION WORK PLAN FOR PHASE IIa OF THE INTERIM REMEDIAL ACTION FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT C-400 CLEANING BLDG (DOE/LX/07-1271&D2/R2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00532
6PHASE-PD	11/18/13	KY-14-0604	EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS ON THE TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT AT PGDP (DOE/LX/07-1294&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00533
6PHASE-PD	11/20/13	KY-14-0607	EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS TO THE TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT (DOE/LX/07-1294&D1)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00555
6PHASE-PD	11/27/13	KY-14-0614	SUBMITTAL OF COMMENTS TO THE TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT (DOE/LX/07-1294&D1)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00556
6PHASE-PD	12/04/13	KY-14-0622	EXTENSION REQUEST FOR SUBMITTAL OF COMMENTS ON THE TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT, AT PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1294&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00558
6PHASE-PD	12/04/13	KY-14-0620	EPA COMMENTS ON THE TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT, AT PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-1294&D1)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00557
6PHASE-PD	12/09/13	KY-14-0621	EPA APPROVAL OF THE PAGE CHANGES FOR THE REMEDIAL ACTION WORK PLAN FOR PHASE IIa OF THE INTERIM REMEDIAL ACTION FOR THE VOLATILE ORGANIC COMPOUND CONTAMINATION AT THE C-400 CLEANING BUILDING AT PGDP (DOE/LX/07-1271&D2/R3)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00559
6PHASE-PD	12/16/13	KY-14-0656	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (C-400 Phase IIb TREATABILITY STUDY)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00593
6PHASE-PD	12/19/13	PPPO-02-2182730-14	MILESTONE MODIFICATION FOR THE C-400 PHASE IIb TREATABILITY STUDY D1 TREATABILITY STUDY DESIGN AND CONSTRUCTION START	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00560

Paducah Documents Added to the Post-Decision Files- First Quarter CY2014

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6PHASE-PD	01/07/14	KY-14-0651	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT (DOE/LX/07-1294&D1) AND SUBSEQUENT DOCUMENTS	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00594
6PHASE-PD	02/10/14	PPPO-02-2219757-14	EXTENSION FOR SUBMITTAL OF THE C-400 PHASE IIb TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT, AT PGDP (DOE/LX/07-1294&D2) AND MILESTONE MODIFICATION FOR THE D1 TREATABILITY STUDY DESIGN AND TREATABILITY STUDY CONSTRUCTION START	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00596
6PHASE-PD	02/10/14	KY-14-0691	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (C-400 Phase IIb TREATABILITY STUDY)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00595
6PHASE-PD	02/13/14	KY-14-0685	APPROVAL OF THE FEDERAL FACILITY AGREEMENT MILESTONE MODIFICATION FOR THE TREATABILITY STUDY WORK PLAN FOR STEAM INJECTION, GROUNDWATER OPERABLE UNIT (DOE/LX/07-1294&D2) AND SUBSEQUENT DOCUMENTS	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00597
6PHASE-PD	03/10/14	PPPO-02-2244287-14	MILESTONE MODIFICATION FOR THE C-400 PHASE IIB TREATABILITY STUDY D1 TREATABILITY STUDY DESIGN	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00611
ARFREF,SWP-PD,GW3-PD	10/31/13	PPPO-02-2154112-14	MILESTONE MODIFICATIONS AND EXTENSIONS AS A RESULT OF PARTIAL GOVERNMENT SHUTDOWN	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00562
GW3-PD	10/28/13	KY-14-0682	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (NORTHEAST PLUME REMEDIAL ACTION)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00583
GW3-PD	12/13/13	PPPO-02-2161403-14	PADUCAH FEDERAL FACILITY AGREEMENT-NOTIFICATION OF INVOCATION OF INFORMAL DISPUTE RESOLUTION FOR THE RETRACTION OF APPROVAL AND CONDITIONAL CONCURRENCE OF THE EXPLANATION OF SIGNIFICANT DIFFERENCES TO THE RECORD OF DECISION FOR THE INTERIM REMEDIAL ACTION OF THE NORTHEAST PLUME AT PGDP (DOE/LX/07-1291&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00566
GW3-PD	12/13/13	PPPO-02-2178406-14	PADUCAH FEDERAL FACILITY AGREEMENT-EXTENSION OF INFORMAL DISPUTE RESOLUTION PERIOD FOR THE CONDITIONAL CONCURRENCES ON THE REMEDIAL ACTION WORK PLAN FOR OPTIMIZATION OF THE NORTHEAST PLUME INTERIM REMEDIAL ACTION AT PGDP (DOE/LX/07-1280&D2)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00535
GW3-PD	01/07/14	PPPO-02-2198688-14	PADUCAH FEDERAL FACILITY AGREEMENT-CONSOLIDATION OF INFORMAL DISPUTES AND EXTENSION OF INFORMAL DISPUTE RESOLUTION ON THE EXPLANATION OF SIGNIFICANT DIFFERENCES TO THE RECORD OF DECISION FOR THE INTERIM REMEDIAL ACTION OF THE NORTHEAST PLUME AT PGDP DOE/LX/07-1291&D2, AND REMEDIAL ACTION WORK PLAN FOR OPTIMIZATION OF THE NORTHEAST PLUME INTERIM REMEDIAL ACTION AT PGDP DOE/LX/07-1280&D2	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00567

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Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
SWP-PD	10/28/13	KY-14-0683	MODIFICATION TO THE PADUCAH FEDERAL FACILITY AGREEMENT ACCORDING TO THE TERMS OF SECTION XXXIX (SOUTHWEST PLUME)	DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00587
SWP-PD	12/09/13	KY-14-0633	EPA REQUEST FOR SCHEDULE INFORMATION TO SUPPORT THE MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE REMEDIAL ACTION COMPLETION REPORT FOR IN SITU SOURCE TREATMENT BY DEEP SOILS MIXING OF SOUTHWEST GROUNDWATER PLUME VOCs AT C-747-C OIL LANDFARM (SWMU1) AT PGDP (DOE/LX/07-1287&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00552
SWP-PD	12/09/13	KY-14-0632	REQUEST FOR INFORMATION IN SUPPORT OF THE FFA MILESTONE MODIFICATION REQUEST FOR SUBMITTAL OF THE D1 REMEDIAL ACTION COMPLETION REPORT FOR IN SITU SOURCE TREATMENT BY DEEP SOIL MIXING OF THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC COMPOUND SOURCE AT C-747-C OIL LANDFARM (SWMU 1)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00551
SWP-PD	12/10/13	PPPO-02-2081332-14,DOE/LX/07-1288&D2	TRANSMITTAL OF THE FINAL CHARACTERIZATION REPORT FOR SOLID WASTE MANAGEMENT UNITS 211-A AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP (DOE/LX/07-1288&D2)	DOE-PPPO,DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00572
SWP-PD	12/13/13	KY-14-0635	APPROVAL OF THE FINAL CHARACTERIZATION REPORT FOR SOLID WASTE MANAGEMENT UNITS 211-A AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-1288&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00553
SWP-PD	12/17/13	KY-14-0639	RESPONSE TO THE FINAL CHARACTERIZATION NOTIFICATION FOR SOLID WASTE MANAGEMENT UNITS 211-A AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME (DOE/LX/07-1288&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00554
SWP-PD	12/19/13	PPPO-02-2093230-14,DOE/LX/07-1287&D2	TRANSMITTAL OF THE REMEDIAL ACTION WORK PLAN FOR IN SITU SOURCE TREATMENT BY DEEP SOIL MIXING OF THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC SOURCE AT C-747-C OIL LANDFARM (SWMU 1) AT PGDP (DOE/LX/07-1287&D2)	DOE-PPPO,DOE-PPPO	KDWM,USEPA-4	**No**	ENV 1.A-00588
SWP-PD	01/08/14	KY-14-0652	APPROVAL OF THE REMEDIAL ACTION WORK PLAN FOR IN SITU SOURCE TREATMENT BY DEEP SOIL MIXING OF THE SOUTHWEST GROUNDWATER PLUME VOLATILE ORGANIC SOURCE AT C-747 OIL LANDFARM (SWMU 1) (DOE/LX/07-1287&D2)	KDWM,KDWM	DOE-PPPO	**No**	ENV 1.A-00568
SWP-PD	01/13/14	KY-14-0657	EPA RESPONSE TO THE FINAL CHARACTERIZATION NOTIFICATION FOR SWMU 211-A AND SWMU 211-B AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KY	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00569

Paducah Documents Added to the Post-Decision Files- First Quarter CY2014

Document Status	Document Date	Document ID	Title	Author Affiliation	To Affiliation	Notes	Name
SWP-PD	01/13/14	KY-14-0658	EPA APPROVAL OF THE D2 FINAL CHARACTERIZATION REPORT FOR SOLID WASTE MANAGEMENT UNITS 211-A AND 211-B VOLATILE ORGANIC COMPOUND SOURCES FOR THE SOUTHWEST GROUNDWATER PLUME AT PGDP (DOE/LX/07-1288&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00570
SWP-PD	01/21/14	KY-14-0667	EPA APPROVAL OF THE REMEDIAL ACTION WORK PLAN FOR IN SITU SOURCE TREATMENT BY DEEP SOIL MIXING OF THE SOUTHWEST GROUNDWATER PLUME VOC SOURCE AT THE C-747-C OIL LANDFARM (SWMU 1) AT PGDP (DOE/LX/07-1287&D2)	USEPA-4	DOE-PPPO	**No**	ENV 1.A-00571

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APPENDIX E

C-400 PROJECT GROUNDWATER MONITORING WELLS DATA

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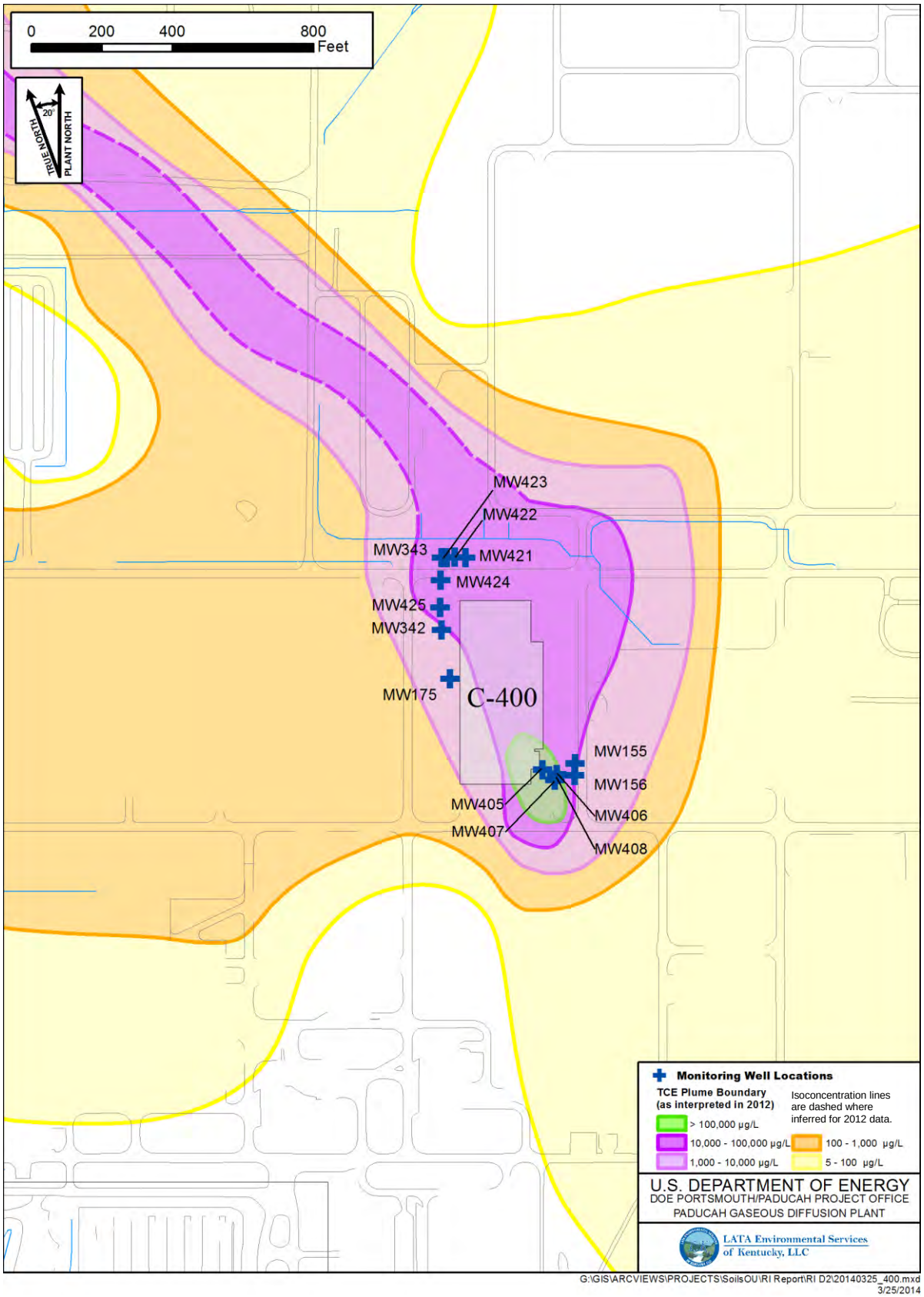

Figure E.1. C-400 Monitoring Wells

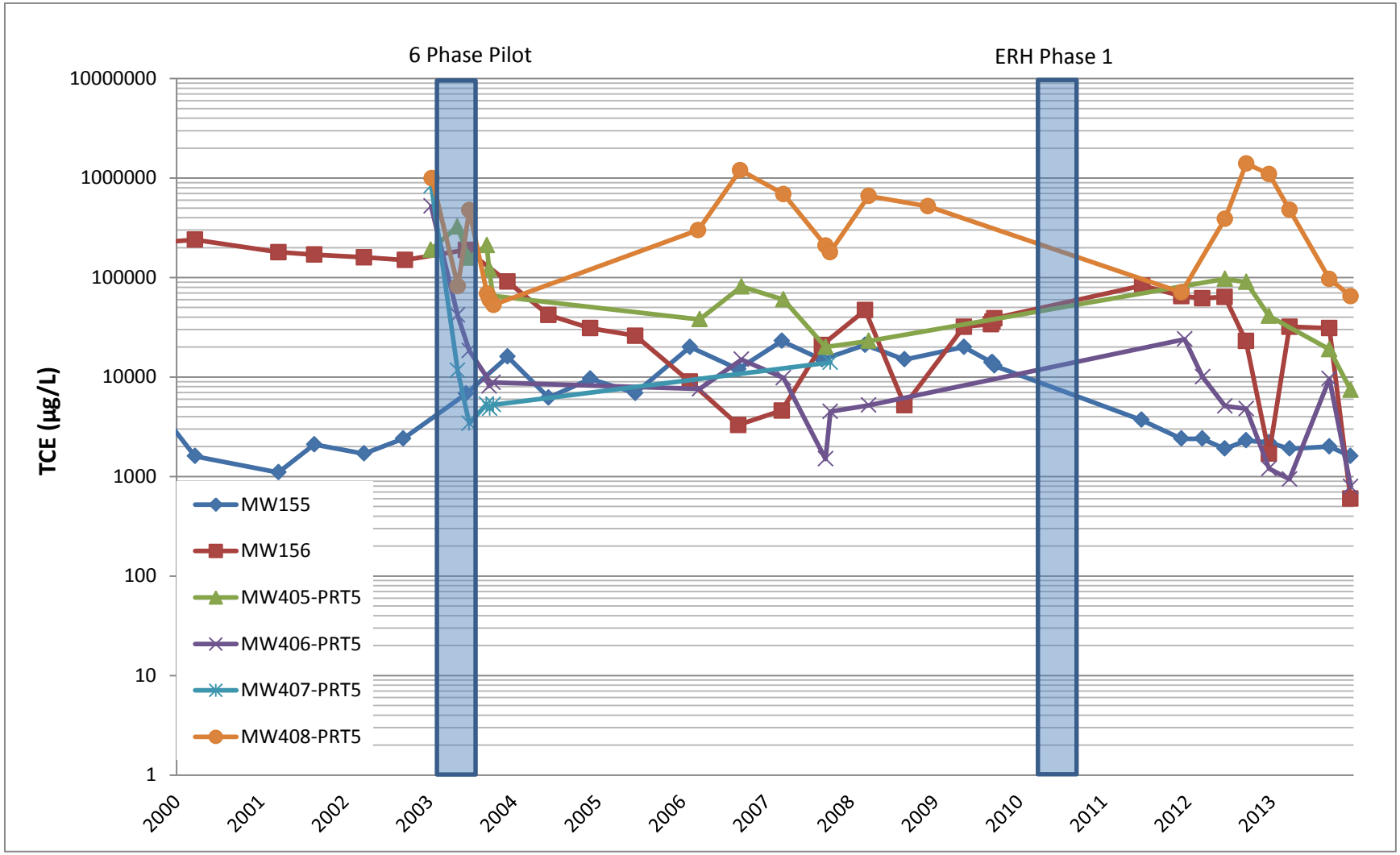

Figure E.2. C-400 TCE Trends in MWs in Source Areas

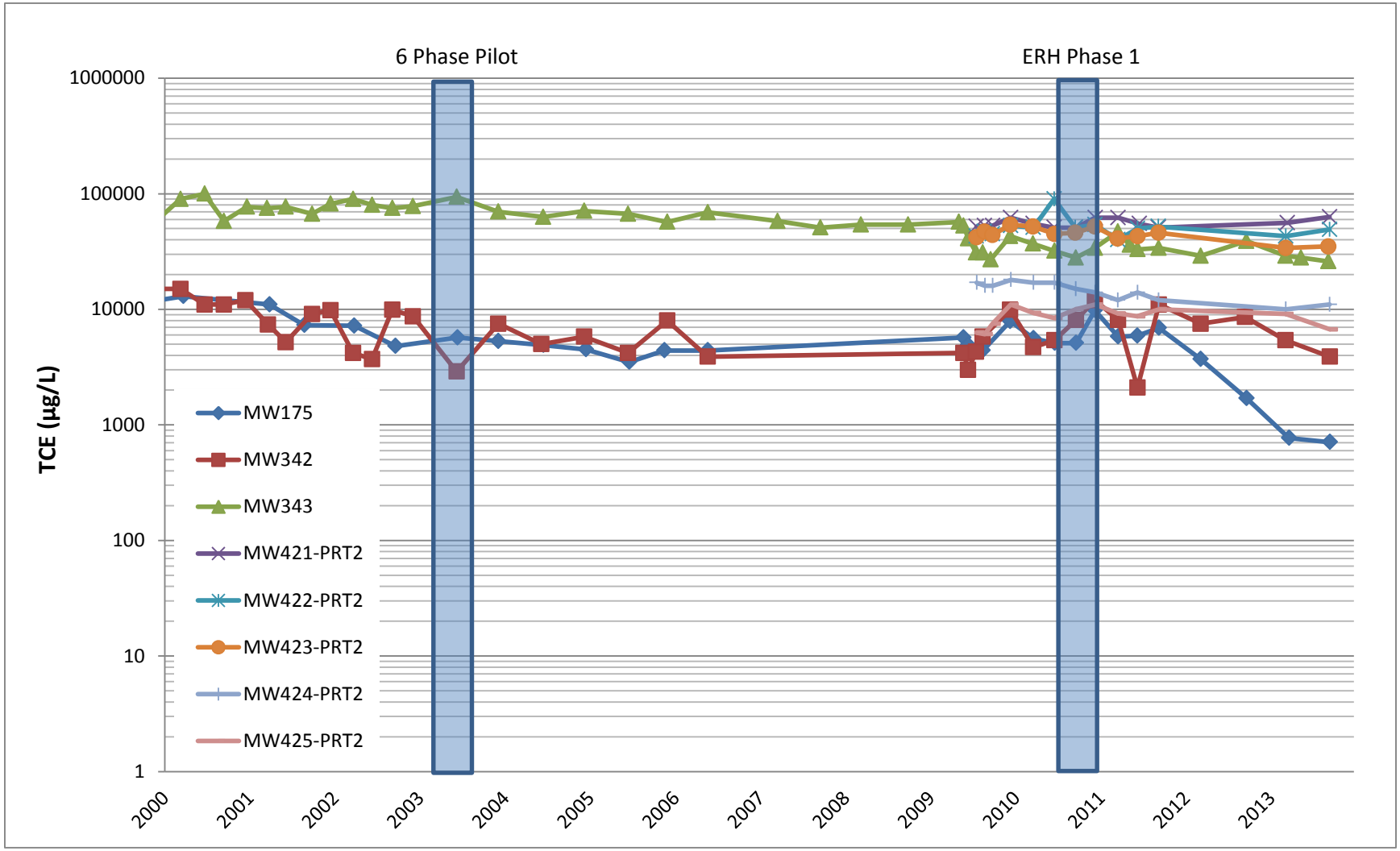

Figure E.3. C-400 TCE Trends in MWs Downgradient of Source Areas

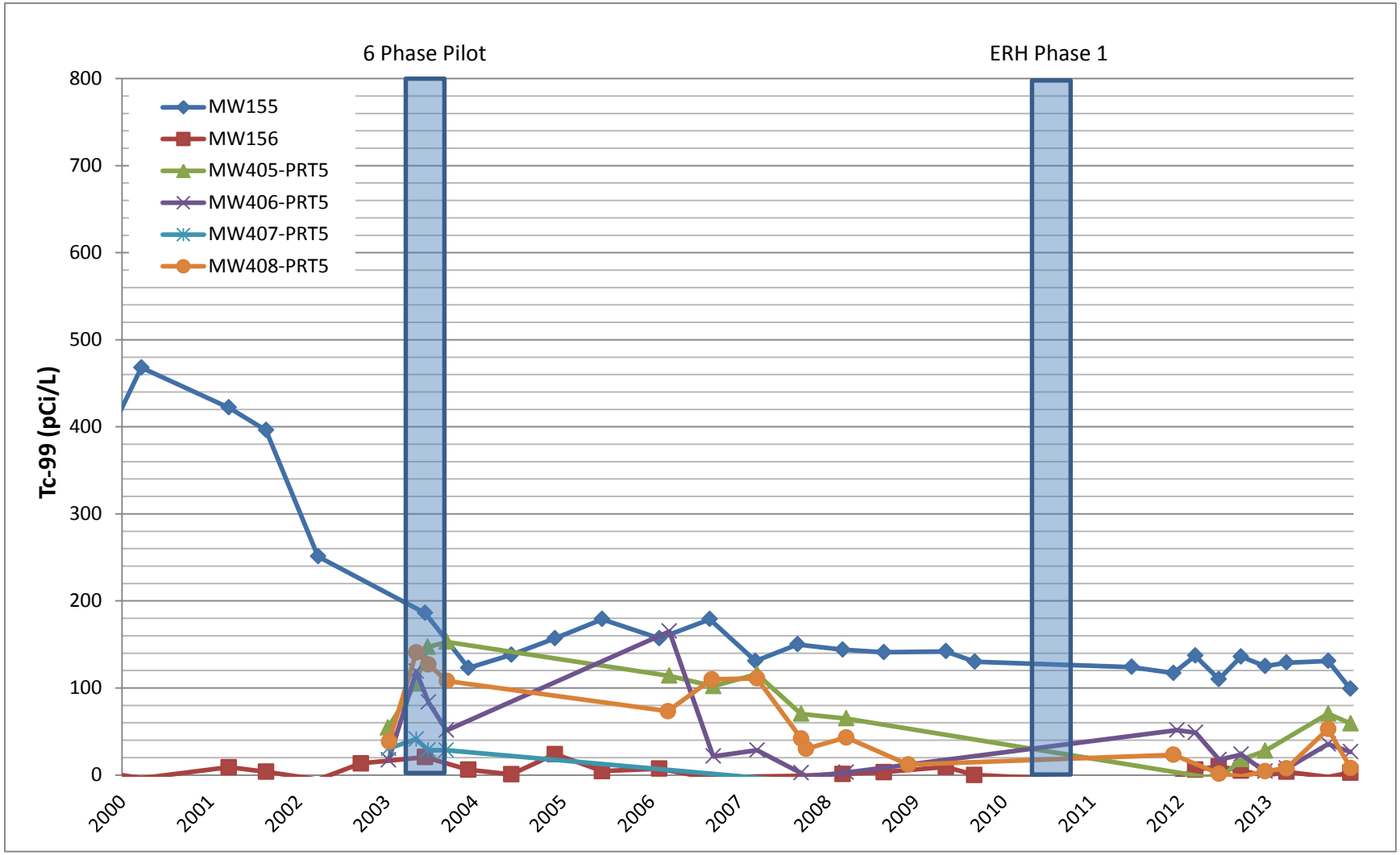

Figure E.4. C-400 Tc-99 Trends in MWs in Source Areas

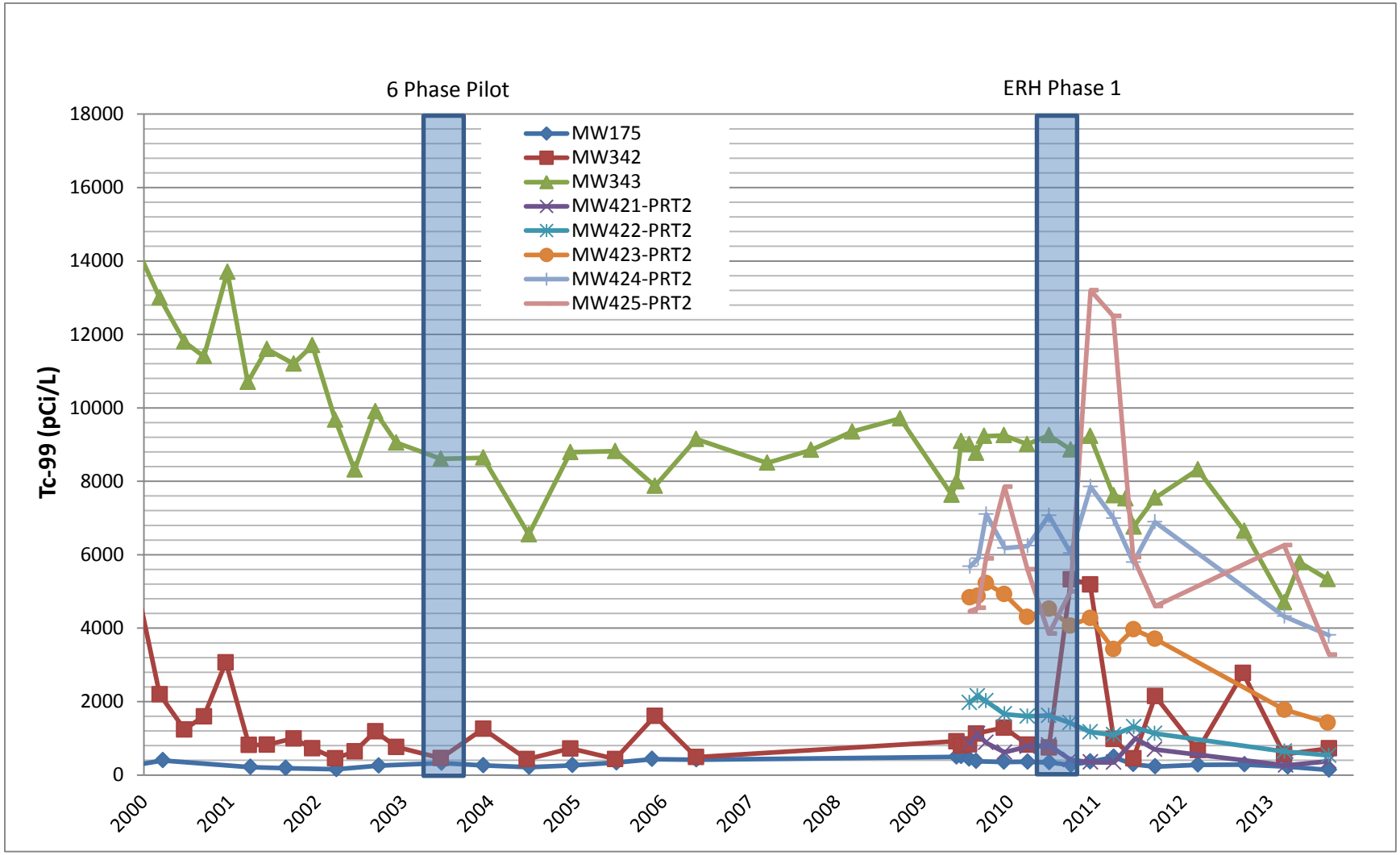

Figure E.5. C-400 Tc-99 Trends in MWs Downgradient of Source Areas

C-400 Monitoring

Water Quality Records for

MW155

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
9/10/2009	14000	< 1000			< 1000													C09254002003
9/10/2009	14000	< 200	< 200	< 200	< 200	< 1.12	93.2	130	< .005									C09253025001
9/15/2009	14000	< 500			< 500													C09258030001
9/22/2009	13000	< 500			< 500													C09265022002
6/23/2011	3700	< 100	< 20	< 20	< 20	7.65	130	124	< .005									C11174017005
12/14/2011	2400	< 500			< 100	< 3.61	111	117	< .005									C11348018003
3/13/2012	2400	< 50			< 50	< 2.35	89.7	137	< .005									C12073014001
6/19/2012	1900	< 250			< 50	6.46	121	110	< .005									C12171014003
9/19/2012	2300	< 20			< 20	< 3.19	131	136	< .005									C12263022001
12/28/2012	2200	< 20			< 20			120										C12363012002
12/28/2012	2200	< 20			< 20			125										C12363012001
3/27/2013	1900	< 20			< 20			129										C13086008001
9/16/2013	2000	< 100			< 20			131										C13259034001
12/17/2013	1600	< 20			< 20			98.6										C13351094006
12/17/2013	1600	< 20			< 20			99.1										C13351094007

Prepared by: **LATA Environmental Services of Kentucky, LLC**
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NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

C-400 Monitoring

Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW156

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
9/8/2009	34000	< 2000	< 2000	< 2000	< 2000	< 3.89	4.01	< .0531	< .005									C09252004001
9/8/2009	34000	< 5000			< 5000													C09252006001
9/15/2009	36000	< 5000			< 5000													C09258030002
9/22/2009	39000	< 5000			< 5000													C09265022001
6/27/2011	83000	< 5000	< 1000	< 1000	< 1000	< 3.86	5.6	< -8.94	< .005									C11178014001
12/14/2011	65000	< 5000			< 1000	< 2.55	7.54	< -5.13	< .005									C11348018004
3/13/2012	62000	< 2000			< 2000	6.83	< 4.93	< 6.21	< .005									C12073014002
6/19/2012	64000	< 5000			< 1000	< 6.32	< 6.31	< 9.77	< .005									C12171014004
9/19/2012	23000	< 500			< 500	< 3.24	< 5.54	< 5.12	< .005									C12263022002
12/28/2012	1700	< 500			< 500			< -.798										C12363012003
3/27/2013	32000	< 1000			< 1000			< 3.7										C13086008002
9/16/2013	31000	< 2500			< 500			< -2.19										C13259034002
12/17/2013	600	< 500			< 500			< 2.71										C13351094008

Tuesday, April 01, 2014

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

Prepared by: **LATA Environmental Services of Kentucky, LLC**
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C-400 Monitoring

Water Quality Records for

MW175

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
6/16/2009	4900	< 50			< 50	11.7	447	508	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09168007001
7/20/2009	4400	< 250			< 50	< 3.65	415	438	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09201015001
8/18/2009	4400	< 50			< 50	9.43	416	375	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09230023001
12/14/2009	7900	< 250			< 50	< -.722	363	357	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09348024001
3/24/2010	5600	< 50			< 50	< 1.61	211	360	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10083023001
6/23/2010	4800	< 250			< 50	< 4.95	292	343	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10174017001
6/23/2010	5100	< 250			< 50	12.9	301	315	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10174017002
9/23/2010	5100	< 250			< 50	7.46	226	275	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10266013001
12/13/2010	9800	< 250			< 50	26.6	274	363	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347023005
3/23/2011	5800	< 100			< 100	24.3	366	488	< .005	< 167	< 176	< 137	< 98	< 118	< 68.6		< 88.2	C11082024002
6/13/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-01
6/13/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-02
6/13/2011	5900	< 250			< 50	9.43	190	267	< .005									C11165011003
6/13/2011	5900	< 250			< 50	13.5	201	292	< .005									C11165011004
9/14/2011	6900	< 250			< 50	< -1.01	218	228	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087005
3/12/2012	3700	< 50			< 50	< 5.16	156	279	< .005									C12072031011
9/25/2012	1700	< 20			< 20	< 3.18	245	282	< .005									C12269015003
9/25/2012	1700	< 20			< 20	< 3.25	245	284	< .005									C12269015004
3/27/2013	770	< 10			< 10			226										C13086008003
9/18/2013	710	< 100			< 20			139										C13261023005

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C-400 Monitoring

Water Quality Records for

MW342

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
6/16/2009	3000	< 50			< 50	16.7	616	805	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09168006001
7/20/2009	4300	< 250			< 50	< -.785	510	837	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09201016001
8/18/2009	5800	< 50			< 50	16	985	1130	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09230024001
12/14/2009	9500	< 250			< 50	< -6.46	978	1290	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09348024002
12/14/2009	9900	< 250			< 50	< .633	926	1280	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09348024003
3/23/2010	4700	< 50			< 50	10.3	386	827	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025007
6/22/2010	5400	< 250			< 50	11.4	642	750	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10173039001
9/23/2010	7600	< 250			< 50	< -52	3690	5330	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10266013002
9/23/2010	8100	< 250			< 50	< -57.1	3720	4720	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10266013003
12/13/2010	12000	< 200			< 200	56	3960	5190	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347023003
12/13/2010	12000	< 200			< 200	41	4120	5000	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347023002
3/23/2011	8100	< 100			< 100	26.8	835	980	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .32	< .09	C11082024001
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-01
6/14/2011	2100	< 500			< 100	28.8	457	456	< .005									C11165038001
9/14/2011	11000	< 250			< 50	< -9.47	1800	2150	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087003
9/14/2011	10000	< 250			< 50	< -4.68	1750	1930	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087004
3/12/2012	7500	< 100			< 100	< 2.56	420	678	< .005									C12072031010
9/19/2012	8600	< 100			< 100	10.4	2820	2780	< .005									C12263022003
3/12/2013	5400	< 100			< 100			564										C13072002001
9/18/2013	3900	< 500			< 100			728										C13261023004

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C-400 Monitoring

Water Quality Records for

MW343

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
6/16/2009	41000	< 500			< 500	82.1	6710	9090	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09168007002
7/20/2009	31000	< 2500			< 500	< 4.65	6730	9010	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09201066001
8/18/2009	31000	< 400			< 400	19.7	7420	8770	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09230023002
9/21/2009	27000	< 1000	< 200	< 1000	< 200	< -119	6980	9230	< .005									C09265006005
12/14/2009	43000	< 2000			< 400	< -176	6970	9250	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09348027001
3/22/2010	37000	< 400	< 250	< 250	< 250	< -90.6	5370	8960	< .005									C10082002001
3/22/2010	37000	< 250			< 250	37.4	6850	< 8920	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082005001
3/22/2010	37000	< 250			< 250	92.1	5660	9010	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10082005002
6/22/2010	32000	< 2500			< 500	22	6440	9250	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10173027001
9/22/2010	28000	< 2500			< 500	< -114	6340	8860	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10265020004
12/13/2010	34000	< 2500			< 500	< -77.3	6970	9230	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347023006
3/22/2011	39000	< 400			< 400	134	5310	7600	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .53	< .09	C11081023003
3/22/2011	47000	< 400			< 400	46.5	6570	7610	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .13	< .09	C11081023004
5/12/2011	36000	< 2500	< 500	< 500	< 500	150	5510	7530	< .005									C11132027003
6/15/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-02
6/15/2011	33000	< 2000			< 400	< -4.39	7110	6760	< .005									C11166026001
9/13/2011	34000	< 2000			< 400	< -144	6990	7550	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256012004
3/12/2012	28000	< 400			< 400	< -85.1	4680	8320	< .005									C12072031006
3/12/2012	29000	< 400			< 400	< -56.9	4670	7030	< .005									C12072031007
9/24/2012	39000	< 500			< 500	< -23.7	4970	6650	< .005									C12268086002
3/12/2013	29000	< 400			< 400			4700										C13072002002
5/17/2013	28000	< 1000	< 200	< 200	< 200			5790										C13137019001

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Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW343

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
9/12/2013	25000	< 1000			< 200			5330										C13255009004
9/12/2013	26000	< 1000			< 200			5150										C13255009005

E-13

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Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW405

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
6/23/2011	52000	< 2500	< 500	< 500	< 500	8.66	22.7	< 16.1	.014									C11174017004

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Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW405-PRT5

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
6/20/2012	97000	< 5000			< 1000	< 4.86	15.7	< -4.94	< .005									C12172011001
9/20/2012	90000	< 1000			< 1000	< .778	14.6	< 17.9	< .005									C12264031001
12/28/2012	41000	< 1000			< 1000			27.7										C12363012004
9/16/2013	19000	< 1000			< 200			70.4										C13259034003
12/18/2013	7400	< 100			< 100			59.1										C13353003001

E-15

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Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW406

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
6/23/2011	6500	< 500	< 100	< 100	< 100	11.4	45.5	47.7	< .005									C11174017003

E-16

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C-400 Monitoring

Water Quality Records for

MW406-PRT5

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
12/28/2011	24000	< 500			< 100	7.77	54.5	51.5	< .005									C11362008002
3/15/2012	10000	< 100			< 100	< -2.11	45.3	48.6	< .005									C12075015001
6/20/2012	5100	< 500			< 100	< 1.89	23.6	< 17.5	< .005									C12172011002
9/20/2012	4800	< 100			< 100	< -.0458	31.2	23.5	< .005									C12264031002
12/28/2012	1200	< 10			< 10			< 4.01										C12363012005
3/27/2013	940	< 20			< 20			< 7.56										C13086018001
9/16/2013	9600	< 100			< 20			35.5										C13259034004
12/18/2013	790	< 10			< 10			26.5										C13353003002

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C-400 Monitoring

Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW407-PRT4

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
12/28/2011	4900	< 500			< 100	< 3.09	10.7	< 5.26	< .005									C11362008001
3/14/2012	14000	< 100			< 100	< 3.36	5.57	< -5.15	< .005									C12074017002
6/20/2012	13000	< 500			< 100	< 4.76	8.43	< 8.61	< .005									C12172011003
9/20/2012	13000	< 100			< 100	< .291	< 3.11	< -10.2	< .005									C12264031003
12/28/2012	7000	< 50			< 50			< .433										C12363012006
3/27/2013	14000	< 200			< 200			< .435										C13086018002
9/16/2013	24000	< 500			< 100			< 13.4										C13259034005
12/18/2013	7000	< 100			< 100			< 3.81										C13353003003

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Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW408

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
6/23/2011	95000	< 5000	< 1000	< 1000	< 1000	< 2.51	13.3	< 14.5	< .005									C11174017001

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

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Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW408-PRT5

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
12/14/2011	71000	< 5000			< 1000	< 1.93	32.9	23.2	< .005									C11348026001
6/20/2012	390000	< 20000			< 4000	< 3.79	12.2	< 1.58	< .005									C12172011004
9/20/2012	1400000	< 4000			< 4000	< -1.52	13.4	< -1.7	< .005									C12264031004
12/28/2012	1100000	< 5000			< 5000			< 4.33										C12363012007
3/27/2013	480000	< 10000			< 10000			< 7.73										C13086018003
9/16/2013	97000	< 2500			< 500			52.9										C13259034006
12/18/2013	65000	< 1000			< 1000			< 8.07										C13353003004

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NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

C-400 Monitoring

Water Quality Records for

MW421-PRT1

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/21/2009	20000	< 1000			< 200	38	1780	1650	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09202027001
8/25/2009	21000	< 200			< 200	< -.377	1300	1670	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09237029001
9/29/2009	22000	< 200			< 200	33	878	1240	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09273002001
12/16/2009	27000	< 1000			< 200	27.7	906	1160	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09350025004
3/23/2010	24000	< 200			< 200	15.5	1180	1780	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082025004
6/23/2010	58000	< 500			< 500	18.4	1710	2340	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10172026001
9/21/2010	34000	< 500			< 500	15.1	826	1190	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10264016001
12/14/2010	28000	< 2500			< 500	9.44	789	916	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10348026001
3/23/2011	28000	< 250			< 250	< 4.35	623	859	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .06	< .09	C11082024003
6/22/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106092-01
6/22/2011	29000	< 2000			< 400	< -121	3300	3930	< .005									C11173026001
9/12/2011	32000	< 1000			< 200	9.06	2190	2500	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255015001
3/19/2013	26000	< 400			< 400			912										C13078013003
9/17/2013	34000	< 2000			< 400			1750										C13260018001

Tuesday, April 01, 2014

NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

Prepared by: **LATA Environmental Services of Kentucky, LLC**
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C-400 Monitoring

Water Quality Records for

MW421-PRT2

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/21/2009	52000	< 2500			< 500	15.2	830	856	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09202027002
8/25/2009	53000	< 500			< 500	6.73	865	1120	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09237029002
9/29/2009	53000	< 500			< 500	27.9	639	882	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09273002002
12/16/2009	62000	< 2500			< 500	4.74	475	618	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09350025005
3/23/2010	55000	< 500			< 500	12.7	417	777	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025005
6/21/2010	51000	< 500			< 500	26.9	514	813	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10172026002
9/21/2010	51000	< 500			< 500	8.44	255	416	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10264016002
12/14/2010	62000	< 500			< 500	10.4	280	348	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10348026002
3/23/2011	62000	< 500			< 500	8.6	220	340	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .15	< .09	C11082024004
6/22/2011	55000	< 2500			< 500	< -24.9	853	996	< .005									C11173026002
6/22/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106092-02
9/12/2011	51000	< 2000			< 400	14.5	582	694	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255015002
3/19/2013	56000	< 500			< 500			265										C13078013004
9/17/2013	63000	< 2000			< 400			377										C13260018002

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C-400 Monitoring

Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW421-PRT3

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/21/2009	63000	< 2500			< 500	< 3.73	327	302	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09202027003
8/25/2009	66000	< 500			< 500	< 3.62	398	451	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09237029003
9/29/2009	61000	< 500			< 500	8.99	323	335	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09273002003
12/16/2009	77000	< 2500			< 500	4.67	226	345	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09350025006
3/23/2010	70000	< 500			< 500	12.8	218	376	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025006
6/21/2010	68000	< 500			< 500	< 4.02	278	251	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10173001001
9/21/2010	64000	< 500			< 500	6.83	215	285	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10264016003
12/14/2010	65000	< 500			< 500	< 5.08	209	278	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10348026003
3/23/2011	61000	< 500			< 500	19	186	278	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .34	< .09	C11082024005
6/22/2011	72000	< 2500			< 500	15.7	289	399	< .005									C11173026003
6/22/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106092-03
9/12/2011	67000	< 2500			< 500	5.7	272	313	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255015003
3/12/2012	73000	< 500			< 500	5.39	177	283	< .005									C12072031003
9/25/2012	96000	< 1000			< 1000	< 1.59	225	211	< .005									C12270003002
3/19/2013	80000	< 1000			< 1000			216										C13078013005
9/17/2013	63000	< 2500			< 500			191										C13260018003

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C-400 Monitoring

Water Quality Records for

MW422-PRT1

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/21/2009	10000	< 500			< 100	< -96.7	10400	13600	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09202018001
8/24/2009	13000	< 100			< 100	95	12900	15600	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09237007001
9/28/2009	12000	< 100			< 100	59.7	14200	16900	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09271021004
12/16/2009	16000	< 1000			< 200	< -15.7	10200	13900	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09350025001
3/23/2010	14000	< 100			< 100	< -25.6	8460	13400	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025001
6/21/2010	14000	< 100			< 100	< -60.6	11600	15500	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10173001002
9/20/2010	15000	< 200			< 200	< -51	8500	12900	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039004
12/13/2010	23000	< 1000			< 200	< -3.47	5090	6610	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024004
3/22/2011	20000	< 200			< 200	87.5	4860	6410	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11081023005
6/15/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-03
6/15/2011	14000	< 1000			< 200	< -13.8	7910	9730	< .005									C11166026002
9/12/2011	16000	< 1000			< 200	< -54.7	10600	12300	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255022001
3/13/2013	16000	< 250			< 250			6720										C13072022004
9/17/2013	17000	< 500			< 100			14200										C13260018004

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C-400 Monitoring

Water Quality Records for

MW422-PRT2

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/21/2009	43000	< 2500			< 500	32.8	1570	1970	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09202019001
8/24/2009	47000	< 500			< 500	28.2	1650	2150	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09237008001
9/28/2009	45000	< 500			< 500	18.5	1490	2020	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09271021005
12/16/2009	53000	< 2500			< 500	16.1	1110	1660	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09350025002
3/23/2010	51000	< 500			< 500	24	823	1600	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10082025002
6/21/2010	90000	< 400			< 400	17.5	1060	1620	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10173001003
9/20/2010	51000	< 1000			< 1000	9.61	808	1420	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039005
12/13/2010	54000	< 2500			< 500	41.2	789	1170	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024005
3/22/2011	40000	< 500			< 500	27.3	823	1090	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .44	< .09	C11081023006
6/15/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-04
6/15/2011	50000	< 2500			< 500	35.3	1000	1310	< .005									C11166026003
9/12/2011	52000	< 2000			< 400	10.6	900	1130	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255022002
3/13/2013	43000	< 500			< 500			643										C13072022005
9/17/2013	49000	< 2000			< 400			535										C13260018005

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C-400 Monitoring

Water Quality Records for

MW422-PRT3

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/21/2009	45000	< 2500			< 500	< -.394	1650	2310	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09202019002
8/24/2009	46000	< 500			< 500	15.4	1380	1960	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09237008002
9/28/2009	45000	< 500			< 500	15.5	1560	1940	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09271021006
12/16/2009	58000	< 2500			< 500	20.7	1230	1630	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09350025003
3/23/2010	53000	< 500			< 500	19.6	866	1490	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082025003
6/21/2010	72000	< 1000			< 1000	15.1	883	1520	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10173001004
9/20/2010	61000	< 1000			< 1000	16.3	777	1320	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039006
12/13/2010	54000	< 2500			< 500	22.6	782	1070	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024006
3/22/2011	54000	< 500			< 500	23.3	677	1010	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .36	< .09	C11081023007
6/15/2011	49000	< 2500			< 500	13.5	864	1140	< .005									C11166026004
6/15/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-05
9/12/2011	53000	< 2000			< 400	7.69	718	910	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11255022003
3/12/2012	69000	< 500			< 500	< 4.11	575	774	< .005									C12072031004
9/25/2012	48000	< 1000			< 1000	< 4.02	524	631	< .005									C12270003001
3/13/2013	35000	< 500			< 500			559										C13072022006
9/17/2013	47000	< 2000			< 400			535										C13260018006

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C-400 Monitoring

Water Quality Records for

MW423-PRT1

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/22/2009	13000	< 500			< 100	< -60	8610	10400	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09203009001
8/25/2009	12000	< 200			< 200	81	9720	12100	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09237022001
9/28/2009	11000	< 100			< 100	87.3	11100	14000	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09271021001
12/15/2009	15000	< 1000			< 200	< -236	11500	14400	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09349015001
3/22/2010	15000	64			< 25	45.5	8550	13800	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10082005003
6/22/2010	12000	< 500			< 100	< -79.6	10100	13400	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10173027002
9/20/2010	12000	< 200			< 200	52.9	9500	16000	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039001
12/13/2010	18000	< 500			< 100	< -161	8180	10800	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024001
3/21/2011	15000	< 200			< 200	95.2	6870	8960	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11080075002
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-06
6/14/2011	15000	< 500			< 100	< -273	9620	9790	< .005									C11165038005
9/13/2011	14000	< 1000			< 200	< -18.7	8820	10500	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256012001
3/13/2013	18000	< 200			< 200			9070										C13072009001
9/12/2013	13000	< 1000			< 200			14900										C13255083001

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C-400 Monitoring

Water Quality Records for

MW423-PRT2

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/22/2009	42000	< 2500			< 500	< -8.97	3760	4840	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09203009002
8/25/2009	47000	< 500			< 500	34.3	3420	4880	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09237022002
9/28/2009	44000	< 500			< 500	35.8	3820	5230	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09271021002
12/15/2009	54000	< 2500			< 500	< -51.8	3650	4930	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09349015002
3/22/2010	52000	< 500			< 500	40.2	2260	4310	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082005004
6/22/2010	45000	< 2500			< 500	< -2.09	3050	4530	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10173027003
9/20/2010	46000	< 500			< 500	14.3	2590	4070	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039002
12/13/2010	52000	< 2500			< 500	42.7	2070	4280	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10347024002
3/21/2011	41000	< 500			< 500	114	1990	3430	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .15	< .09	C11080075003
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-07
6/14/2011	43000	< 2500			< 500	< -23.6	2810	3970	< .005									C11165038006
9/13/2011	46000	< 2000			< 400	< -37.2	2730	3710	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256012002
3/13/2013	34000	< 500			< 500			1780										C13072009002
9/12/2013	35000	< 2000			< 400			1430										C13255083002

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C-400 Monitoring

Water Quality Records for

MW423-PRT3

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/22/2009	42000	< 2500			< 500	< -4.38	2660	4350	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09203009003
8/25/2009	47000	< 500			< 500	23.4	2850	4440	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09237022003
9/28/2009	14000	< 500			< 500	97.8	10600	13500	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09271021003
12/15/2009	53000	< 2500			< 500	< -48.6	2970	4030	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09349015003
3/22/2010	51000	< 500			< 500	43.5	1960	3810	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082005005
6/22/2010	49000	< 2500			< 500	5.16	2930	3850	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10173027004
9/20/2010	50000	< 500			< 500	34.3	2080	3730	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10263039003
12/13/2010	50000	< 2500			< 500	19	2120	3140	< .005	< .17	< .18	< .14	< .1	< .12	< .07	.15	< .09	C10347024003
3/21/2011	41000	< 500			< 500	89.1	1880	2900	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .12	< .09	C11080075004
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-08
6/14/2011	43000	< 2500			< 500	< -17.1	2540	3680	< .005									C11165038007
9/13/2011	47000	< 2000			< 400	< -27.3	2490	2990	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256012003
3/12/2012	37000	< 500			< 500	< -9.6	1620	2350	< .005									C12072031005
9/24/2012	67000	< 500			< 500	19.2	1550	1820	< .005									C12268086001
3/13/2013	34000	< 500			< 500			1800										C13072009003
9/12/2013	35000	< 2000			< 400			1730										C13255083003

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C-400 Monitoring

Water Quality Records for

MW424-PRT1

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/23/2009	7200	< 500			< 100	< -7	2300	1790	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09204021001
8/27/2009	7100	< 50			< 50	< 3.09	2680	3330	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09239018001
9/30/2009	7700	< 100			< 100	125	4580	6150	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09273021001
12/17/2009	9200	< 100			< 100	< -31.9	7760	10000	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09351022002
3/24/2010	7900	< 100			< 100	86.8	4420	6540	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10083023002
6/23/2010	7900	< 250			< 50	14	4020	5080	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10174017003
9/22/2010	7900	< 1000			< 200	< -79.8	7420	10300	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10265020001
12/15/2010	8400	< 100			< 100	< -325	9940	13900	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020001
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-09
6/14/2011	7900	< 500			< 100	< -211	7890	8220	< .005									C11165038002
9/13/2011	9000	< 500			< 100	< -150	5730	6730	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256019001
3/13/2013	7900	< 100			< 100			10300										C13072022001
9/17/2013	5900	< 250			< 50			5540										C13260018007

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C-400 Monitoring

Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW424-PRT2

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/23/2009	17000	< 1000			< 200	< -29.4	4170	5680	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09204022001
8/27/2009	16000	< 200			< 200	< -4.44	6130	5900	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09239019001
9/30/2009	16000	< 200			< 200	91.8	5200	7100	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09273023001
12/17/2009	18000	< 200			< 200	7.27	4010	6180	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09351022003
3/24/2010	17000	< 250			< 250	52.8	2940	6240	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10083023003
6/22/2010	17000	< 1000			< 200	12.7	5150	7070	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10174017004
9/22/2010	15000	< 1000			< 200	< -41.8	4000	6040	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10265020002
12/15/2010	14000	< 200			< 200	< -161	5510	7850	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020002
3/22/2011	12000	< 100			< 100	170	4620	6990	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .26	< .09	C11081023001
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-10
6/14/2011	14000	< 500			< 100	< -51.5	4820	5790	< .005									C11165038003
9/13/2011	12000	< 500			< 100	< -138	5900	6890	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256019002
3/13/2013	10000	< 100			< 100			4320										C13072022002
9/17/2013	11000	< 500			< 100			3810										C13260018008

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C-400 Monitoring

Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW424-PRT3

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	Lab Sample ID
7/23/2009	22000	< 1000			< 200	< -7.72	1900	2770	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09204023001
8/27/2009	23000	< 200			< 200	< 5.21	3400	4970	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09239020001
9/30/2009	23000	< 250			< 250	78.9	3350	4660	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09273024001
12/17/2009	23000	< 200			< 200	12.3	2960	4500	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09351022004
3/24/2010	23000	< 250			< 250	< -39.3	2810	4600	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C10083023004
6/23/2010	21000	< 1000			< 200	10.2	3160	4740	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10174017005
9/22/2010	21000	< 1000			< 200	< -14.6	2650	4440	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10265020003
12/15/2010	19000	< 200			< 200	< -54.8	2840	4300	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020003
3/22/2011	16000	< 200			< 200	93.3	2580	3430	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .28	< .09	C11081023002
6/14/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106059-11
6/14/2011	18000	< 1000			< 200	< -23	2990	3940	< .005									C11165038004
9/13/2011	16000	< 1000			< 200	< -42.4	2720	4190	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11256019003
3/12/2012	12000	< 200			< 200	15.3	2120	3500	< .005									C12072031008
9/25/2012	11000	< 200			< 200	< -2.6	3010	3600	< .005									C12269015005
3/13/2013	10000	< 100			< 100			3070										C13072022003
9/17/2013	9300	< 500			< 100			2870										C13260018009

Tuesday, April 01, 2014

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C-400 Monitoring

Water Quality Records for

MW425-PRT1

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/22/2009	5100	< 250			< 50	< 2.26	755	789	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C09203011001
8/26/2009	8200	< 100			< 100	9.62	4390	3870	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09238024001
9/29/2009	11000	< 100			< 100	107	6500	8580	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09273002004
12/16/2009	13000	< 500			< 100	26.5	6360	9490	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09350025007
3/23/2010	8900	< 100			< 100	51.4	2200	3010	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10082005006
6/22/2010	8300	< 500			< 100	25	1340	1330	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10173039002
9/21/2010	12000	< 500			< 100	< -221	10000	12700	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10264016004
12/15/2010	13000	< 200			< 200	< -819	15000	18300	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020004
3/21/2011	11000	< 100			< 100	81.2	10800	14000	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .17	< .09	C11080075005
6/13/2011	7600	< 500			< 100	75.3	2130	2530	< .005									C11165011005
6/13/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-03
9/14/2011	12000	< 500			< 100	< -143	7140	9190	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087006
3/12/2013	6500	< 100			< 100			5630										C13072002003
9/18/2013	4600	< 500			< 100			5220										C13261023001

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C-400 Monitoring

Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW425-PRT2

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/22/2009	6300	< 250			< 50	< 3.37	2930	4460	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09203011002
8/26/2009	6100	< 50			< 50	< -19.6	3370	4550	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09238024002
9/29/2009	7500	< 50			< 50	121	4600	5900	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09273002005
12/16/2009	11000	< 500			< 100	< -17.7	5550	7850	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09350025008
3/23/2010	9300	< 50			< 50	49.5	3710	5600	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C10082005007
6/22/2010	8400	< 250			< 50	43.7	2900	3850	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10173039003
9/21/2010	10000	< 500			< 100	< -37.4	4910	5000	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10264016005
12/15/2010	11000	< 100			< 100	< -456	9930	13200	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020005
3/21/2011	9200	< 100			< 100	28.2	8260	12500	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .36	< .09	C11080075006
6/13/2011	8700	< 500			< 100	< -26.5	4870	5930	< .005									C11165011006
6/13/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-04
9/14/2011	10000	< 500			< 100	< -98.5	4370	4600	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087007
3/12/2013	9100	< 100			< 100			6260										C13072002004
9/18/2013	6700	< 500			< 100			3280										C13261023002

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C-400 Monitoring

Water Quality Records for

MW425-PRT3

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
7/22/2009	6200	< 250			< 50	< .86	3380	4420	< .005	< .16	< .17	< .13	< .1	< .11	< .07	< .05	< .09	C09203011003
8/26/2009	4700	< 50			< 50	< -23.2	3770	4120	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09238024003
9/29/2009	6900	< 50			< 50	96.2	3490	4570	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C09273002006
12/17/2009	8100	< 100			< 100	39.3	3620	5210	< .005	< .16	< .17	< .13	< .09	< .11	< .07	< .05	< .08	C09351022001
3/23/2010	7600	< 50			< 50	57	2590	4290	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10082005008
6/22/2010	7700	< 250			< 50	33.6	2790	3760	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10173039004
9/21/2010	8500	< 500			< 100	< -22.6	3270	5070	< .005	< .16	< .17	< .14	< .1	< .12	< .07	< .05	< .09	C10264016006
12/15/2010	9100	< 100			< 100	< -325	7150	8570	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C10349020006
6/13/2011										< .4	< .4	< .4	< .4	< .4	< .4	< .4	< .4	1106040-05
6/13/2011	7400	< 500			< 100	< -23.1	3310	4310	< .005									C11165011007
9/14/2011	8500	< 500			< 100	< -99.4	4540	4360	< .005	< .17	< .18	< .14	< .1	< .12	< .07	< .05	< .09	C11257087008
3/12/2012	8000	< 100			< 100	< -25.1	3230	5410	< .005									C12072031009
9/19/2012	9900	< 100			< 100	< -28.6	4490	5320	< .005									C12263022004
3/12/2013	11000	< 100			< 100			4600										C13072002005
9/18/2013	9600	< 500			< 100			2530										C13261023003

Tuesday, April 01, 2014

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C-400 Monitoring

Water Quality Records for

MW505

Sample Date Range: 6/16/2009 - 12/31/2013

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
3/13/2012	160	< 5			< 5	< -2.14	48.8	51.6	< .005									C12073014003
6/18/2012	18	< 5			< 1	< -1.58	54	51.4	< .005									C12170024001
9/19/2012	22	< 1			< 1	< 1.39	45.1	61.8	< .005									C12263015001
12/5/2012	22	< 5			< 1			56.2										C12340029002
3/19/2013	34	< 1			< 1			49.2										C13078040001
3/19/2013	32	< 1			< 1			53.9										C13078040002
6/11/2013	31	< 1			< 1			55.5										C13162015006
9/12/2013	26	< 5			< 1			74.3										C13255009001
12/17/2013	28	< 1			< 1			56.2										C13351094003

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C-400 Monitoring

Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW506

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
3/13/2012	4300	< 50			< 50	< .856	50.5	62.6	< .005									C12073014004
6/18/2012	4100	< 250			< 50	< 3.44	66.4	59.7	< .005									C12170024002
9/19/2012	3700	< 50			< 50	< 3.84	50.8	59	< .005									C12263015002
12/5/2012	4200	< 250			< 50			42.8										C12340029004
3/19/2013	2100	< 50			< 50			49.7										C13078040003
6/11/2013	2400	< 50			< 50			64										C13162015005
9/12/2013	2100	< 100			< 20			63.1										C13255009002
12/17/2013	2000	< 20			< 20			60.9										C13351094004

E-37

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C-400 Monitoring

Water Quality Records for

Sample Date Range: 6/16/2009 - 12/31/2013

MW507

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results			Metal	Polychlorinated biphenyl Analysis Results								Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	Uranium mg/L	PCB 1016 µg/L	PCB 1221 µg/L	PCB 1232 µg/L	PCB 1242 µg/L	PCB 1248 µg/L	PCB 1254 µg/L	PCB 1260 µg/L	PCB 1268 µg/L	
3/13/2012	1200	< 10			< 10	< 3.11	38.7	53.4	< .005									C12073014005
6/18/2012	1200	< 100			< 20	< 5.7	51.2	41.2	< .005									C12170024003
9/19/2012	1800	< 10			< 10	< .808	34.4	30.7	< .005									C12263015003
12/5/2012	1900	< 100			< 20			42.9										C12340029005
3/19/2013	770	< 20			< 20			48.3										C13078040004
6/11/2013	1000	< 10			< 10			72.4										C13162015003
6/11/2013	1100	< 10			< 10			65.1										C13162015004
9/12/2013	530	< 50			< 10			86.6										C13255009003
12/17/2013	870	< 10			< 10			64.6										C13351094005

E-38

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APPENDIX F

C-749 URANIUM BURIAL GROUND (SWMU 2) GROUNDWATER MONITORING WELL DATA

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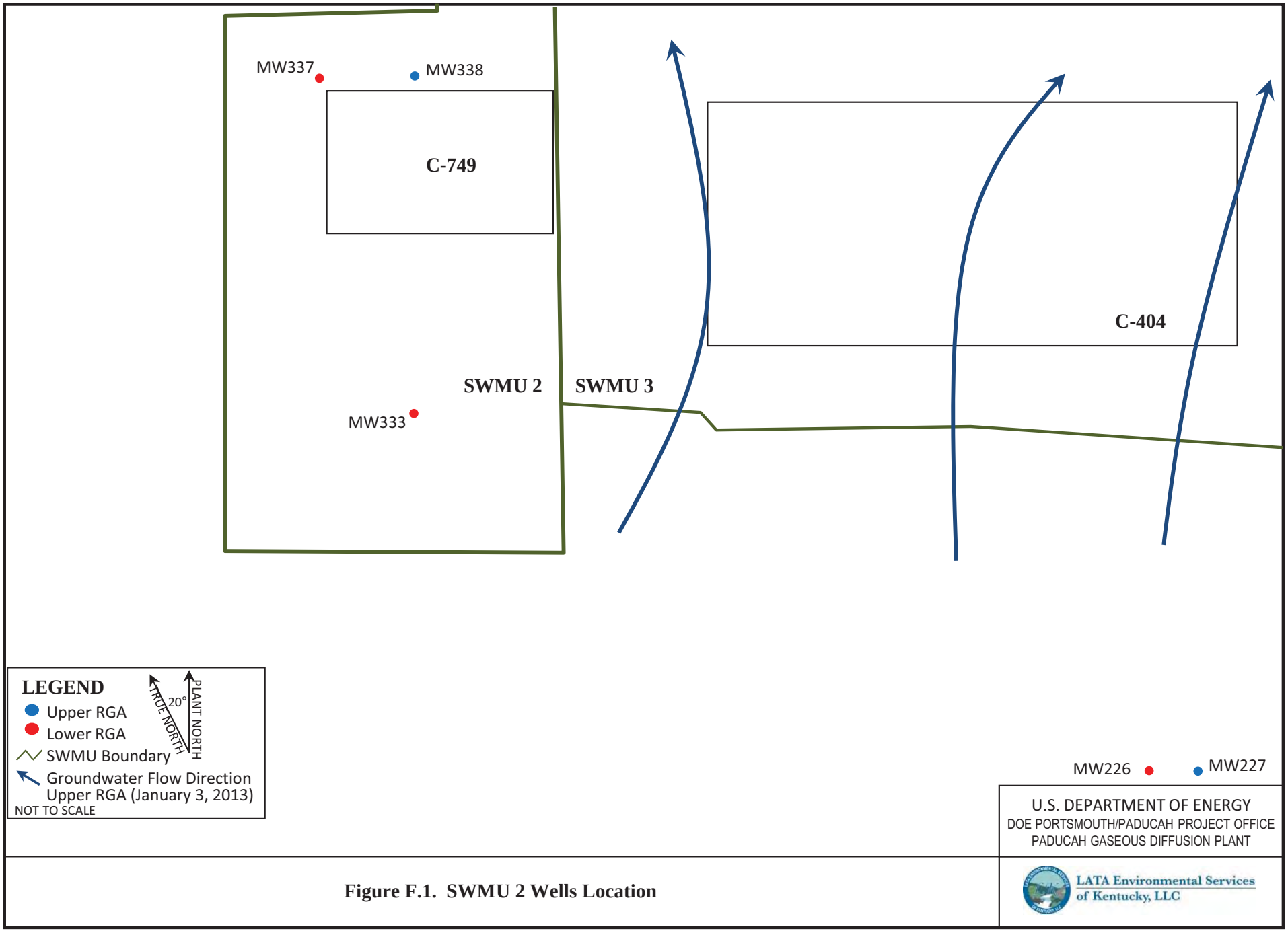
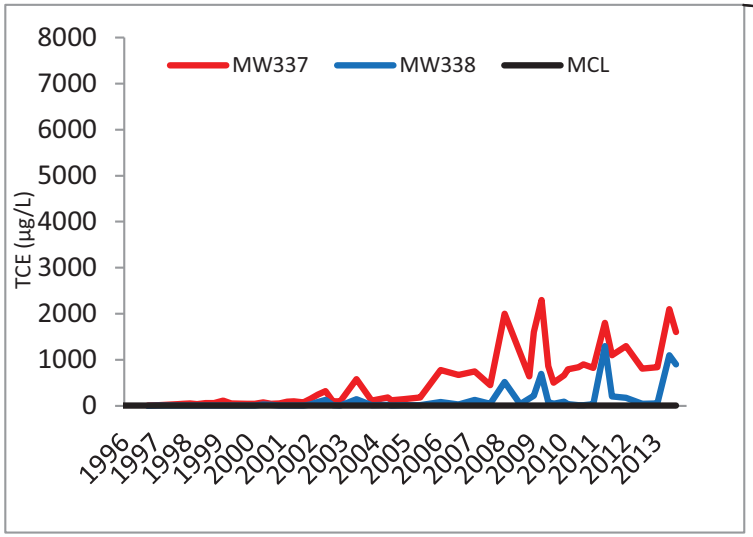
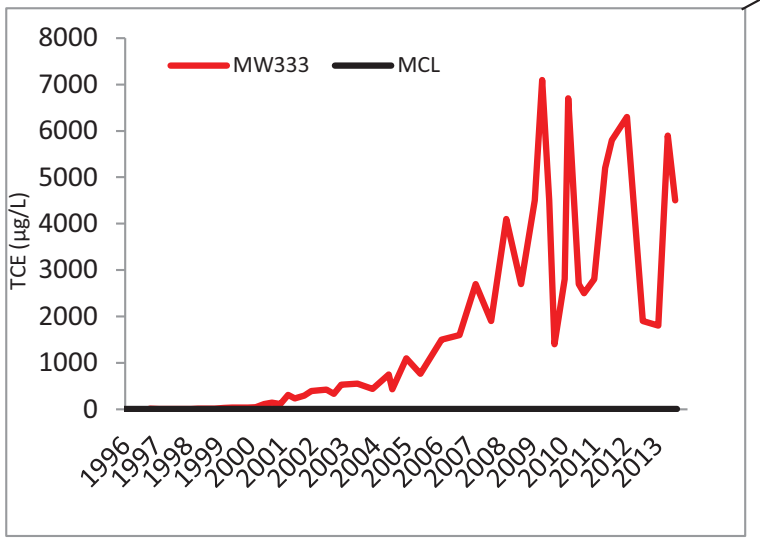
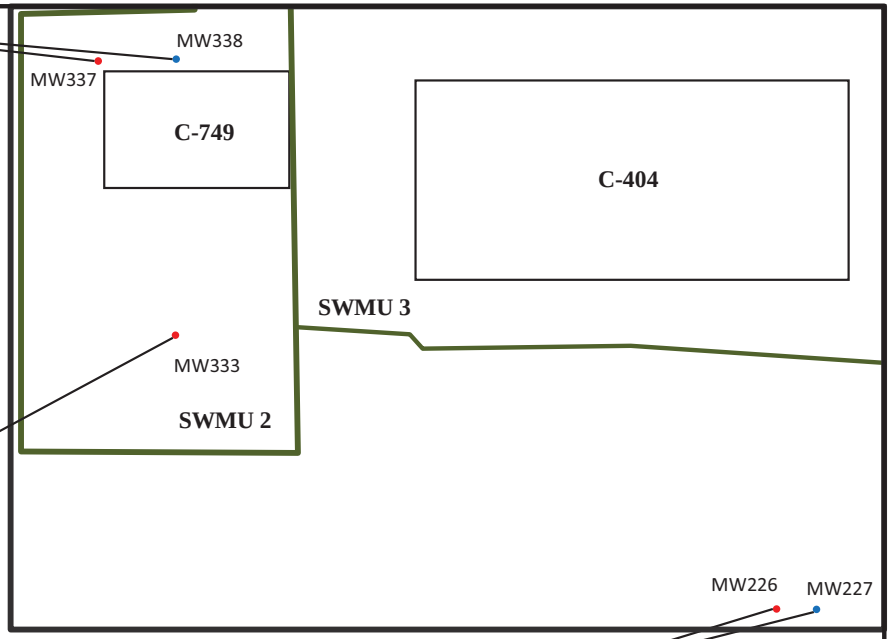


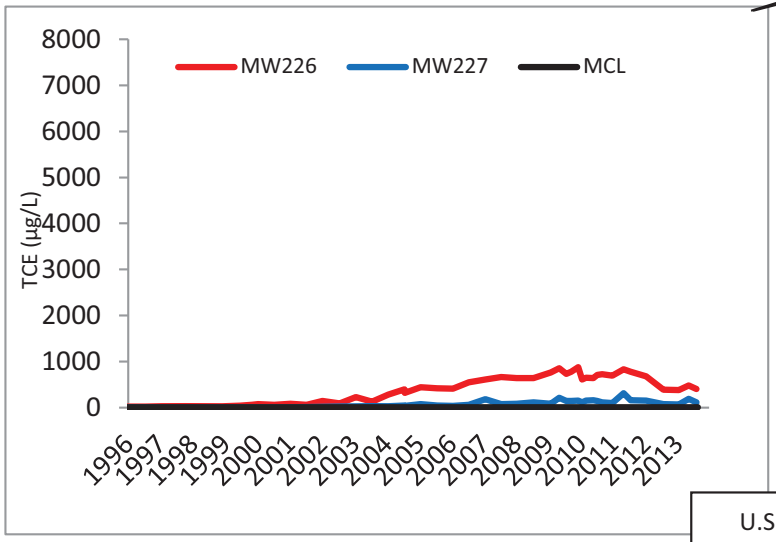
Figure F.1. SWMU 2 Wells Location

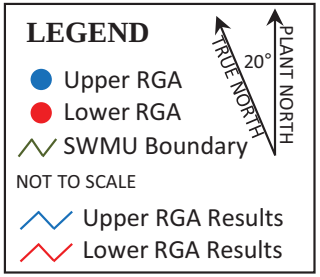
M:\FFA Semi Annual Report\20131108 SWMU 2 Wells.pptx











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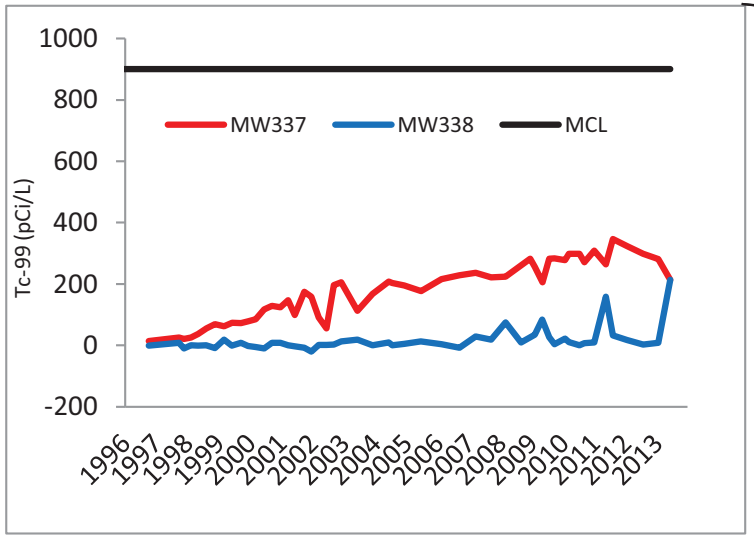
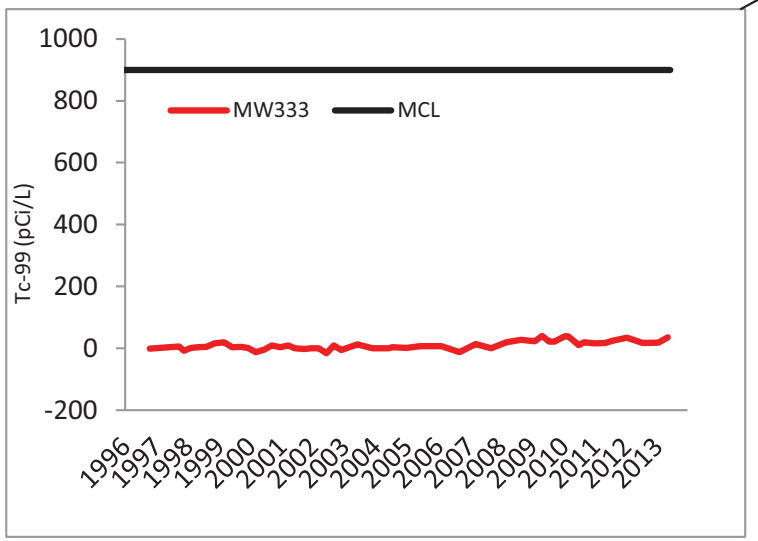
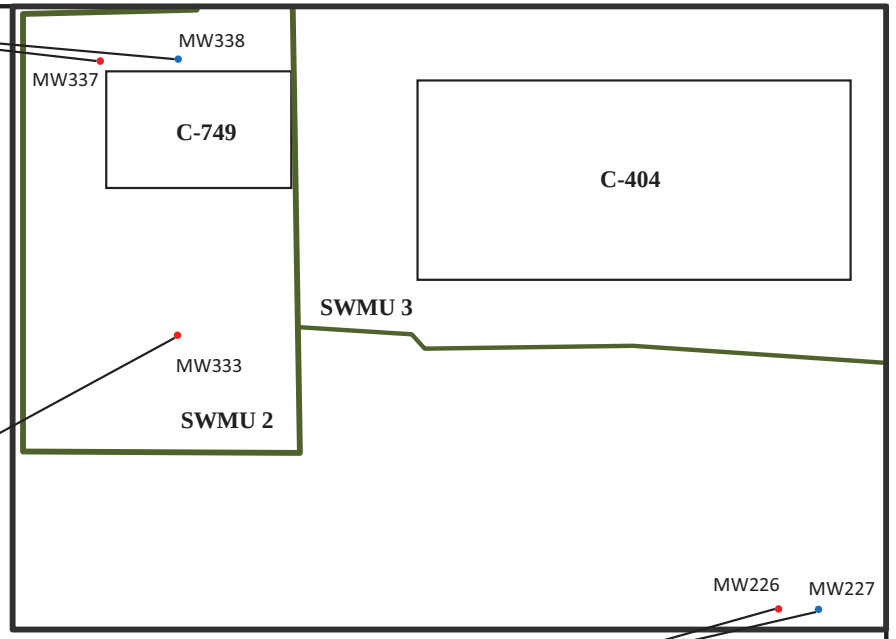
PADUCAH GASEOUS DIFFUSION PLANT

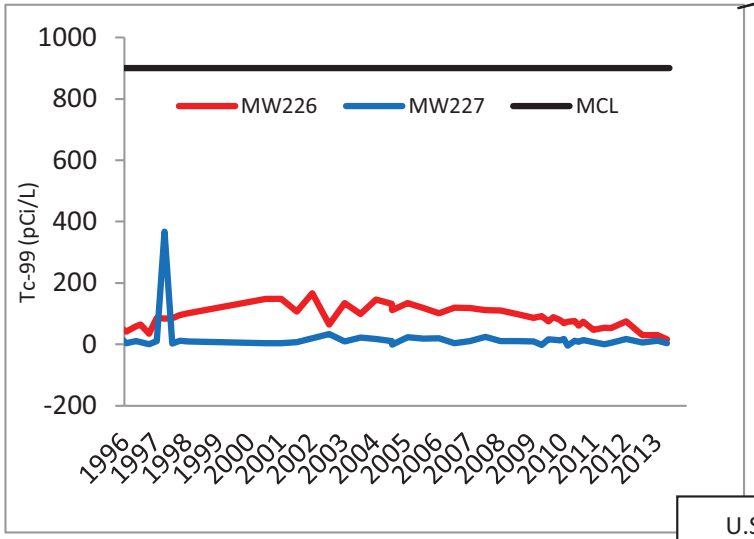
LATA Environmental Services of Kentucky, LLC

Figure F.2. TCE Trends in SWMU 2 Wells









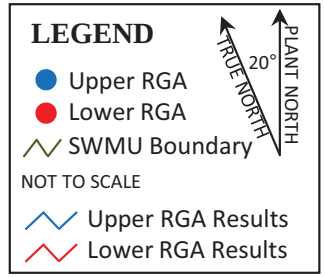


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Figure F.3. Tc-99 Trends in SWMU 2 Wells

LATA Environmental Services of Kentucky, LLC

C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW226

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
5/6/1993	8							11				930507-105
5/6/1993	2							6				930507-101
5/13/1993	7							12				930513-235
6/2/1993	8							10				930602-113
6/16/1993	8							8				930617-116
6/16/1993	2											930617-118
7/14/1993	9							16				930715-049
7/20/1993	10							8				930721-106
8/9/1993	11							15				930810-018
8/16/1993	11							18				930819-067
9/30/1993	11							18				930930-169
10/26/1993	12							35				931027-061
11/8/1993	11							32				931109-073
11/16/1993	11							22				931117-105
1/11/1994	11							25				940111-177
1/25/1994	12							13				940126-013
2/8/1994	10							32				940209-005
2/15/1994	12							14				940216-023
7/18/1994	12							18				940719-065
7/26/1994	14							35				940726-198
8/11/1994	15							32				940812-033
8/18/1994	15							15				940818-135
1/17/1995	17							30				950117-119
1/17/1995	17							26				950117-115
1/23/1995	17							31				950125-081

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW226

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
2/6/1995	16							28				950207-055
2/13/1995	16							36				950215-031
4/19/1995								39				950419-194
4/24/1995								44				950425-170
5/3/1995								15				950503-140
5/8/1995								43				950509-033
5/8/1995								49				950509-041
7/19/1995	16							32				950720-047
7/25/1995	11							32				950726-034
8/7/1995								41				950808-083
8/14/1995								43				950815-023
8/14/1995								30				950815-031
10/23/1995								34				951024-036
10/30/1995								40				951031-056
10/30/1995								36				951031-060
11/8/1995								54				951110-059
11/15/1995								55				951116-020
1/22/1996	20							42				960122-119
5/17/1996								59				960521-007
7/10/1996	20							65				960710-204
10/14/1996								35				961015-019
1/16/1997	24							86				970121-043
4/14/1997								84				970414-100
7/14/1997	26							84				970714-133
7/14/1997	27							85				970714-134

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW226

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
10/14/1997								95				971014-047
1/12/1998	30							101				C980140119
7/13/1998	25											C981960004
7/13/1998	25											C981960005
1/11/1999	26											C990110084
7/20/1999	40											C992020007
7/20/1999	42											C992020008
1/11/2000	71											C000110092
7/12/2000	61							148				C001940098
1/9/2001	81							148				C010100017
7/11/2001	55							107				C011930007
1/8/2002	140							166				C020080098
7/22/2002	89							64.7				C022030173
1/21/2003	230							134				C030210115
7/23/2003	130							98.9				C032040144
1/21/2004	280							146				C040210090
7/22/2004	340	12	< 5	< 5	< 5	< .668	57.7	132	< .0902	< .0122	< .348	C042050009
7/22/2004	394											C042050002
7/27/2004	320							112				C042090056
1/24/2005	440							134	< .0357	< .0147	< -.0135	C050240045
7/27/2005	420							118	< .0346	< .00589	< .00252	C052080180
1/24/2006	410							101	< .0973	< -.0183	< .0768	C060240039
7/24/2006	550							119	< 1.07	< .187	< .282	C062050057
1/24/2007	610							118	< 1.03	< -.00311	< .21	C070240038
7/24/2007	660							112	< .0971	< -.0355	< .0361	C072060043

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW226

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
1/15/2008	640							110	< -.0264	< .0644	< .00478	C080160004
7/24/2008	640							98.7	< .0399	< .00678	< -.00253	C082060091
2/5/2009	760							86.5				C09036036004
5/12/2009	850	26	< 5	< 5	< 5	< -.403	49.2	92.3				C09132009001
7/28/2009	730							74.6				C09209020001
9/21/2009	780	< 25	< 5	< 25	< 5	< 2.56	46.3	88.1				C09265006002
12/10/2009	880							79.1				C09344026005
1/26/2010	610							69.3				C10026023001
3/9/2010	650	22	< 10	< 10	< 10	4.2	49.4	74				C10068052005
6/1/2010	640							75.7				C10152026001
7/14/2010	710							60.7				C10195040002
9/7/2010	720	22	< 10	< 10	< 10	< 4.04	38.8	73.8				C10250033001
1/3/2011	690							47.6				C11003029002
5/11/2011	830	28	< 5	< 5	< 5	4.3	41	54.5				C11131023001
7/28/2011	780							53.2				C11209031001
1/20/2012	680							74.7				C12020022001
7/31/2012	390							30.5				C12213022002
1/23/2013	380							30.3				C13023019002
5/14/2013	480	< 25	< 5	< 5	< 5			< 16.5				C13134021006
8/12/2013	400							39.3				C13224030001
1/8/2014	360							33				C14008024003

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW227

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
5/13/1993	2							17				930513-239
6/2/1993	2							0				930602-124
6/16/1993	2							0				930617-138
7/13/1993	2							12				930713-156
7/19/1993	2							10				930721-102
8/9/1993	2							5				930810-014
8/16/1993	2							13				930820-001
9/30/1993	2							13				930930-173
10/26/1993	2							7				931027-053
11/8/1993	2							0				931109-077
11/16/1993	2							9				931117-134
1/11/1994	3							18				940111-181
1/25/1994	3							11				940126-017
2/8/1994	3							0				940209-001
2/15/1994	3							5				940216-019
4/29/1994	4											940429-116
7/18/1994	2							0				940719-061
7/26/1994	3							6				940726-202
8/10/1994	3	< 5	< 5	< 5	< 5							S408081-01V
8/10/1994	4							10				940811-075
8/10/1994	4							14				940811-063
8/18/1994	4							3				940818-131
1/17/1995	4							9				950118-204
1/23/1995	3							18				950125-093
1/23/1995	4							10				950125-097

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW227

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
2/6/1995	3							9				950207-059
2/13/1995	4							17				950215-027
4/19/1995								16				950419-202
4/24/1995								23				950425-178
4/24/1995								20				950425-162
5/3/1995								5				950503-136
5/8/1995								14				950509-049
7/19/1995	5							6				950720-043
7/25/1995	4							23				950726-038
8/7/1995								14				950808-067
8/7/1995								17				950808-087
8/14/1995								12				950815-027
10/23/1995								0				951024-032
10/23/1995								0				951024-040
10/30/1995								6				951031-064
11/8/1995								7				951110-063
11/15/1995								22				951116-024
1/22/1996	4							3	2.9	.18	6.69	960122-115
1/22/1996	4							4				960122-123
5/17/1996								10				960521-008
7/9/1996	5							7				960709-085
10/14/1996								0				961015-018
1/16/1997	6							11				970121-041
1/16/1997	6							3				970121-042
4/14/1997								367				970414-099

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW227

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
7/14/1997	6							2				970714-135
10/14/1997								< 12				971014-048
1/12/1998	4							< 9				C980140120
1/12/1998	4							< 8				C980140122
7/13/1998	6											C981960003
1/11/1999	6											C990110085
1/11/1999	6											C990110086
7/20/1999	8											C992020009
1/11/2000	3											C000110093
7/12/2000	6							< 3.92				C001940099
1/9/2001	3							< 3.82				C010100018
7/11/2001	7							< 7.5				C011930006
1/8/2002	23							20.2				C020080097
7/22/2002	23							33.4				C022030172
1/21/2003	24							< 9.75				C030210114
7/23/2003	26							22.5				C032040145
1/21/2004	31							< 17				C040210091
7/22/2004	40											C042050003
7/22/2004	33	< 1	< 1	< 1	< 1	5.9	10.1	< 10.4	< .284	< .00706	< .412	C042050010
7/27/2004	39							< -.469				C042090057
1/24/2005	76							22.8	< .348	< -.0287	< .122	C050240047
7/27/2005	45							18.9	< .0822	< .0131	< .0649	C052080181
1/25/2006	38							20.3	< .0898	< .004	< .0169	C060250133
7/24/2006	61							< 4.11	< 1.36	< .263	< .298	C062050058
1/24/2007	180							< 11	< .219	< .0426	< .0696	C070240039

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW227

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
7/24/2007	73							24	< .124	< -.0338	< .0891	C072060044
1/16/2008	79							< 11	< .21	< .00145	< .0742	C080160068
7/24/2008	110							< 10.9	< .0526	< .00769	< -.00691	C082060092
2/5/2009	82							< 9.22				C09036036005
5/12/2009	210	4.2	< 1	< 1	< 1	< 1.54	7.61	< -2.16				C09132009002
7/28/2009	140							16.5				C09209020002
9/21/2009	140	< 5	< 1	< 5	< 1	< .447	7.47	< 14.8				C09265006003
12/10/2009	150							< 12.6				C09344026006
1/26/2010	110							< 17.1				C10026023002
3/9/2010	150	3.5	< 1	< 1	< 1	< 2.74	7.52	< -4.34				C10068052006
6/1/2010	160							< 11.8				C10152026002
7/14/2010	140							< 8.12				C10195040003
9/7/2010	110	2.5	< 1	< 1	< 1	< -.521	5.85	< 13.6				C10250033002
1/3/2011	94							< 7.15				C11003029001
5/11/2011	310	6.2	< 1	< 1	< 1	< .974	10.6	< .676				C11131023002
7/28/2011	160							< 4.69				C11209031002
1/20/2012	150							17.9				C12020022003
7/31/2012	74							< 5.99				C12213022003
1/22/2013	63							< 11.8				C13022086002
5/14/2013	190	< 5	< 1	< 1	< 1			< 3.61				C13134021005
8/12/2013	110							< 4.08				C13224030002
1/8/2014	120							< -7.61				C14008024004

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW333

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
10/14/1996	10				< .48							96M04623-3717
10/14/1996									9.66		.14	96M04623-3731
10/14/1996								-1.1				96M04623-3761
1/29/1997	5	< 5	< 5	< 5	< 5							970130-051
9/23/1997	5	< 5	< 5	< 5	< 5	-.2	2	6				970923-064
11/19/1997	6	< 5	< 5	< 5	< 5	-.7	2	-8				971119-080
2/9/1998	8	< 5	< 5	< 5	< 5	< 2.3	< 1	< 1				C980420046
5/4/1998	14	< 5	< 5	< 5	< 5	< 5.1	15	< 3				C981250036
8/10/1998	16	< 5	< 5	< 5	< 5	< 4.3	6	< 3.9				C982220109
11/12/1998	16	< 5	< 5	< 5	< 5	< -1.37	5.36	< 16				C983160089
3/3/1999	30	< 5	< 5	< 5	< 5	< .68	< 2.83	19.27				C990620037
6/4/1999	33	< 5	< 5	< 5	< 5	< 1.23	< .07	< 2.81				C991580024
9/15/1999						< -.79		< 4.13				C992580210
12/7/1999	33	< 5	< 5	< 5	< 5	< .45	< .49	< -6.17				C993410101
12/7/1999	29	< 5	< 5	< 5	< 5	2.48	< 1.48	< .475				C993410100
3/8/2000	46	< 5	< 5	< 5	< 5	< 1.58	< 4.62	< -12.8		< 0		C000680108
6/14/2000	110	< 5	< 5	< 5	< 5	< .52	< -.97	< -4.54				C001670002
9/12/2000	140	< 5	< 5	< 5	< 5	< 2.67	< 3.97	< 9.38				C002560135
12/18/2000	110	< 10	< 10	< 10	< 10	< .462	< .604	< 3.24				C003540006
3/19/2001	310	< 5	< 5	< 5	< 5	< -.5	< .794	< 8.5				C010780093
6/6/2001	230	< 25	< 25	< 25	< 25	< 1.62	4.76	< -.303				C011570178
9/25/2001	290	< 25	< 25	< 25	< 25	< 2.25	< 1.41	< -2.35		< -9.94		C012680234
12/17/2001	390	< 25	< 25	< 25	< 25	< 1.86	< -.125	< -.337				C013510092
3/13/2002										< -3.95		C020720129
3/13/2002	410	< 25	< 25	< 25	< 25	< 1.13	< .94	< -.654				C020720130

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW333

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
6/10/2002	420	< 50	< 50	< 50	< 50	< 1.57	< -2.59	< -15.7				C021610047
9/5/2002	330	< 50	< 50	< 50	< 50	< -.977	< -.125	< 8.51				C022480132
12/2/2002	530	< 25	< 25	< 25	< 25	< 1.7	< .462	< -6.2				C023370013
6/10/2003	550	< 25	< 25	< 25	< 25	< 1.08	< 1.1	< 12.4				C031620013
12/4/2003	440	< 25	< 25	< 25	< 25	< .213	< 2.21	< 0				C033380096
6/7/2004	750	< 50	< 50	< 50	< 50	< -.231	< -.683	< -.384	< 30	< 2.2	< .35	C041590175
7/20/2004	430	< 10	< 10	< 10	< 10	< 1.44	< 1.43	< 2.73	< .198	< .00505	< .363	C042020116
12/30/2004	1100	< 50	< 50	< 50	< 50	< -.0341	< .436	< 1.21				C043650022
6/14/2005	760	< 50	< 50	< 50	< 50	< .455	< 2.91	< 6.24	< .0723	< -.0127	< .0115	C051650114
2/14/2006	1500	< 50	< 50	< 50	< 50	< -.267	< 3.66	< 6.25				C060450089
2/14/2006	1300	< 50	< 50	< 50	< 50	< 2.43	< 3.19	< 5.18				C060450088
9/12/2006	1600	< 120	< 120	< 120	< 120	< 1.58	4.31	< -12.7				C062550163
3/19/2007	2700	< 100	< 100	< 100	< 100	4.34	8.66	< 13.8				C070780102
9/19/2007	1900	< 20	< 20	< 100	< 20	< 2.81	6.15	< .212				C072630092
3/11/2008	4100	< 25	< 25	< 120	< 25	< 1.75	16.9	19				C080710145
9/3/2008	2700	< 25	< 25	< 120	< 25	< .456	6.72	27.3				C082470086
2/9/2009	4500							22.7				C09040013001
5/7/2009	7100	< 250	< 50	< 250	< 50	< 2.35	22	39.9				C09127062003
7/28/2009	4500							21.1				C09209012001
9/25/2009	1400	< 50	< 50	< 50	< 50	< .535	17.7	21.3				C09268017001
1/26/2010	2800							38.1				C10026023004
3/8/2010	6700	< 50	< 50	< 50	< 50	< .795	24.7	38.6				C10067037002
7/9/2010	2700							< 10.3				C10190027002
9/8/2010	2500	< 50	< 50	< 50	< 50	< 1.48	10.6	18.7				C10251037004
1/4/2011	2800							< 15.6				C11005004006

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW333

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
5/11/2011	5200	< 100	< 20	< 20	< 20	< 2.14	13.1	< 16.3				C11131034002
7/28/2011	5800							23.4				C11209031004
1/20/2012	6300							33.7				C12020022002
7/26/2012	1900							< 17.2				C12208015003
1/22/2013	1800							18				C13022086003
5/15/2013	5900	< 250	< 50	< 50	< 50			34.7				C13135012003
8/6/2013	4500							45				C13219005002
1/8/2014	5800							44.4				C14008024002

F-16

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW337

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
10/4/1996	8.3				< .48							96M04622-3716
10/4/1996								14				96M04622-3760
10/4/1996									.38		.27	96M04622-3730
1/29/1997	10	< 5	< 5	< 5	< 5							970130-050
9/22/1997	38	< 5	< 5	< 5	< 5	3.8	21	26				970923-040
11/19/1997	41	< 5	< 5	< 5	< 5	.9	22	21				971119-081
2/9/1998	48	< 5	< 5	< 5	< 5	< 1.3	18	26				C980420047
5/4/1998	34	< 5	< 5	< 5	< 5	< 4.4	37	36.8				C981250037
8/10/1998	58	< 5	< 5	< 5	< 5	< .6	35	55.1				C982220110
11/17/1998	61	< 5	< 5	< 5	< 5	3.06	37.83	69.2				C983210021
3/3/1999	110	< 25	< 25	< 25	< 25	< 1.91	< 2.49	62.71				C990620038
6/4/1999	47	< 5	< 5	< 5	< 5	< .4	48.8	73.5				C991580025
9/15/1999						< .8	48.9	72.4				C992580183
12/7/1999	44	< 5	< 5	< 5	< 5	4.34	69.36	77.7				C993410097
3/7/2000	44	< 5	< 5	< 5	< 5	< -.43	79.03	84.8		< -9.63		C000680019
6/14/2000	75	< 5	< 5	< 5	< 5	< 1.02	97.07	117				C001670003
9/12/2000	44	< 5	< 5	< 5	< 5	< 3.09	112.58	129				C002560134
12/18/2000	50	< 5	< 5	< 5	< 5	< -.451	75.1	124				C003540007
3/19/2001	90	< 5	< 5	< 5	< 5	< 1.05	81.1	147				C010780094
6/6/2001	97	< 5	< 5	< 5	< 5	< .921	97.6	98.5				C011570179
9/24/2001	75	< 5	< 5	< 5	< 5	< -2.29	97.2	175		< -8.42		C012680004
12/17/2001	150	< 10	< 10	< 10	< 10	4.96	103	158				C013510093
3/13/2002	240	< 25	< 25	< 25	< 25	< 4.6	68	91.3				C020720126
3/13/2002										< -7.31	< 0	C020720125
6/10/2002	320	< 25	< 25	< 25	< 25	< -1.91	43.3	55.1				C021610048

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW337

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
9/5/2002	96	< 25	< 25	< 25	< 25	< .989	115	196				C022480133
12/2/2002	100	< 5	< 5	< 5	< 5	< 1.72	127	205				C023370011
6/9/2003	580	< 25	< 25	< 25	< 25	< .265	63.1	113				C031600083
12/4/2003	110	< 25	< 25	< 25	< 25	10.8	159	168				C033380097
6/8/2004	180	< 25	< 25	< 25	< 25	< -1.26	111	208	< 30	< 2.2	< .35	C041600042
7/20/2004	120	< 2	2.2	< 2	< 2	3.45	111	203	< .101	< -.00296	< .275	C042020117
12/8/2004	140	< 10	< 10	< 10	< 10	< -2.1	129	195				C043430086
6/21/2005	180	< 10	< 10	< 10	< 10	4.73	113	177	< .059	< -.0123	< .00534	C051720110
2/14/2006	780	< 25	< 25	< 25	< 25	< .0576	21.5	216				C060450090
9/12/2006	670	< 50	< 50	< 50	< 50	3.19	157	229				C062550177
3/19/2007	750	< 5	14	< 5	< 5	< 2.38	163	237				C070790063
9/19/2007	450	< 5	< 5	< 25	< 5	4.99	123	222				C072630052
3/6/2008	2000	< 10	< 10	< 50	< 10	4.24	173	224				C080670001
12/18/2008	640	< 10	< 10	< 10	< 10	< 1.52	97.5	282				C08353022001
2/10/2009	1600							256				C09041031001
5/11/2009	2300	< 25	< 25	< 25	< 25	< 1.82	177	205				C09131017003
7/28/2009	860							282				C09209006001
9/25/2009	500	< 10	< 10	< 10	< 10	4.01	196	284				C09268025002
1/27/2010	660							278				C10027031002
3/16/2010	790	< 50	< 10	< 50	< 10	5.77	191	298				C10075019002
7/14/2010	840							298				C10195017001
9/13/2010	900	< 10	< 10	< 10	< 10	< 1.14	155	271				C10256034001
1/3/2011	820							309				C11003029004
5/19/2011	1800	< 50	< 10	< 10	< 10	6.63	172	264				C11139019001
8/10/2011	880							347				C11222050002

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW337

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
8/10/2011	1100							333				C11222050003
1/23/2012	1300							324				C12023024006
7/30/2012	800							298				C12212050001
7/30/2012	810							294				C12212050002
1/24/2013	840							281				C13024007001
6/11/2013	2100	< 20	< 20	< 20	< 20			213				C13162014003
8/26/2013	1600							219				C13238022001
1/13/2014	2000							231				C14013030001

F-19

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW338

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
10/4/1996								-.82				96M04621-3759
10/4/1996	.7				< .48							96M04621-3715
10/4/1996									.56		.67	96M04621-3729
1/29/1997	< 1	< 5	< 5	< 5	< 5							970130-049
9/22/1997	< 1	< 5	< 5	< 5	< 5	-1.1	3	8				970923-041
11/19/1997	< 1	< 5	< 5	< 5	< 5	.8	2	-10				971119-082
2/9/1998	< 1	< 5	< 5	< 5	< 5	< 4.2	< 5	< 0				C980420048
5/4/1998	2	< 5	< 5	< 5	< 5	< .2	12	< -.6				C981250038
8/6/1998	< 1	< 5	< 5	< 5	< 5	< -1.9	< 3	< .2				C982180120
11/17/1998	< 1	< 5	< 5	< 5	< 5	< 1.15	< 2.58	< -9.2				C983210022
3/3/1999	5	< 5	< 5	< 5	< 5	< .35	< 1.7	19.04				C990620039
6/3/1999	1	< 5	< 5	< 5	< 5	< .96	19.31	< -.869				C991540178
9/15/1999						< 1.1		< 8.63				C992580184
12/7/1999	< 1	< 5	< 5	< 5	< 5	< 1.51	< 2.91	< -2.48				C993410096
3/7/2000	< 1	< 5	< 5	< 5	< 5	< 0	5.93	< -4.97		< -11.6		C000680018
6/14/2000	24	< 5	< 5	< 5	< 5	< 1.83	< -2.5	< -9.54				C001670001
9/12/2000	21	< 5	< 5	< 5	< 5	< 2.6	8.27	< 7.94				C002560133
12/18/2000	< 1	< 5	< 5	< 5	< 5	< 3.14	5.38	< 7.73				C003540008
3/19/2001	5	< 5	< 5	< 5	< 5	< -.418	< .657	< .481				C010780095
6/6/2001	8	< 5	< 5	< 5	< 5	< .866	< 2.9	< -3.53				C011570180
9/24/2001	3	< 5	< 5	< 5	< 5	< -.18	< 2.92	< -7.31		< -4.82		C012680005
12/17/2001	24	< 5	< 5	< 5	< 5	< 1.14	< .738	< -20.6				C013510094
3/13/2002										< 0		C020720127
3/13/2002	78	< 5	< 5	< 5	< 5	< -.652	< 4	< 1.2				C020720128
6/10/2002	130	< 10	< 10	< 10	< 10	< 1.08	< 5.59	< 1.54				C021610049

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C-749 Uranium Burial Ground (SWMU2) Monitoring

Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW338

Sample Date	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						Lab Sample ID
	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	
9/5/2002	11	< 5	< 5	< 5	< 5	< .0927	< 2.41	< 2.99				C022480134
12/3/2002	8	< 5	< 5	< 5	< 5	< .447	< 3.19	< 13.4				C023370048
6/9/2003	140	< 10	< 10	< 10	< 10	< -.525	8.03	18.8				C031600084
12/4/2003	9	< 5	< 5	< 5	< 5	< 1.42	6.17	< 0				C033380098
6/8/2004	22	< 5	< 5	< 5	< 5	< -1.41	< .409	< 9.88	< 30	< 2.2	< .35	C041600043
7/20/2004	4.6	< 1	< 1	< 1	< 1	< .125	< 2.32	< -.111	< .169	< .0261	< .423	C042020118
12/8/2004	13	< 5	< 5	< 5	< 5	< .742	< 3.48	< 5.2				C043430088
6/16/2005	11	< 5	< 5	< 5	< 5	< 1.43	< 2.46	< 12.4	< .0101	< -.0133	< -.0335	C051670015
2/14/2006	82	< 5	< 5	< 5	< 5	< -.143	6.12	< 3.55				C060450091
9/12/2006	25	< 5	< 5	< 5	< 5	< .511	7.01	< -7.99				C062550178
3/19/2007	130	< 5	< 5	< 5	< 5	< 1.6	18.3	29.4				C070790064
9/19/2007	44	< 1	< 1	< 5	< 1	< 1.36	7.27	18.2				C072630053
9/19/2007	44	< 1	< 1	< 5	< 1	< 2.72	9.39	< 12.3				C072630054
3/6/2008	520	< 1	< 1	< 5	< 1	< 2.16	60.8	74.6				C080670002
9/2/2008	33	< 1	< 1	< 5	< 1	< 2.39	7.6	< 9.04				C082460126
2/9/2009	220							35.1				C09040021003
5/7/2009	690	< 25	< 5	< 25	< 5	< -.167	64.6	83.5				C09127062004
7/28/2009	80							26.3				C09209006002
9/25/2009	40	< 1	< 1	< 1	< 1	< 3.07	< 3.87	< 3.76				C09268017003
1/27/2010	89							22.4				C10027031001
3/16/2010	36	< 10	< 2	< 10	< 2	< 1.76	8.45	< 10.3				C10075019003
7/14/2010	14							< -3.51				C10195017002
7/14/2010	14							< .779				C10195017003
9/13/2010	14	< 1	< 1	< 1	< 1	< 1.25	< 3.53	< 7.51				C10256034002
1/3/2011	39							< 9.16				C11003029005

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NOTE: This report does not include data that has been rejected during data assessment and/or data validation.

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Water Quality Records for

Sample Date Range: 5/6/1993 - 1/31/2014

MW338

	Organic Laboratory Analysis Results					Radiological Laboratory Analysis Results						
Sample Date	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	1,2-DCA µg/L	trans-1,2-DCE µg/L	Alpha Activity pCi/L	Beta Activity pCi/L	Tc-99 pCi/L	U-234 pCi/L	U-235 pCi/L	U-238 pCi/L	Lab Sample ID
5/19/2011	1300	< 5	< 1	< 1	< 1	< 1.41	94.2	158				C11139019002
8/10/2011	200							32.7				C11222050004
1/23/2012	170							18				C12023024007
7/30/2012	44							< 2.01				C12212050003
1/24/2013	54							< 8.03				C13024007002
6/11/2013	1100	< 20	< 20	< 20	< 20			214				C13162014004
8/26/2013	900							197				C13238022002
1/13/2014	100							69.4				C14013030002

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