Final
Second Quarter 2014 Quarterly Summary Report
Operable Unit No. 2 (Groundwater)
Former Nebraska Ordnance Plant, Mead, Nebraska

Contract W912DQ-13-D-3000, Task Order 0002

August 2014

US Army Corps of Engineers ®
Kansas City District

FINAL
QUARTERLY SUMMARY REPORT
SECOND QUARTER 2014 SAMPLING EVENTS

OPERABLE UNIT 2 (GROUNDWATER)
FORMER NEBRASKA ORDNANCE PLANT
MEAD, NEBRASKA

U.S. Army Corps of Engineers
Kansas City District

Contract W912DQ-13-D-3000
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TABLE OF CONTENTS

Section **Page**

1.0 INTRODUCTION 1

2.0 SUMMARY OF SECOND QUARTER 2014 GROUNDWATER MONITORING PROGRAM SAMPLING EVENT 1
- 2.1 FIELD SAMPLING 2
- 2.2 ANALYTICAL RESULTS 2
- 2.3 GROUNDWATER MONITORING PROGRAM SUMMARY 3

3.0 SUMMARY OF SECOND QUARTER 2014 WATER SUPPLY WELL SAMPLING EVENT 5
- 3.1 FIELD SAMPLING 5
- 3.2 ANALYTICAL RESULTS 6
- 3.3 WATER SUPPLY WELL SUMMARY 6

4.0 SUMMARY OF SECOND QUARTER 2014 OPERATION AND MAINTENANCE SAMPLING EVENTS 6
- 4.1 FIELD SAMPLING 6
- 4.2 ANALYTICAL RESULTS 7
- 4.3 OPERATION AND MAINTENANCE SUMMARY 7

5.0 DATA VALIDATION RESULTS 8

6.0 SECOND QUARTER 2014 SAMPLING EVENTS SUMMARY 8

7.0 REFERENCES 9

LIST OF TABLES

Table 1.1 Final Target Groundwater Cleanup Goals

Table 2.1 Perimeter Monitoring Wells, Results for Second Quarter 2014 Sampling Event
Table 2.2 Compliance Monitoring Wells, Results for Second Quarter 2014 Sampling Event
Table 2.3 LL1 Interior Plume Monitoring Wells, Results for Second Quarter 2014 Sampling Event
Table 2.4 LL2 and LL3 Interior Plume Monitoring Wells, Results for Second Quarter 2014 Sampling Event
Table 2.5 LL4, AMA, and Landfill Interior Plume Monitoring Wells, Results for Second Quarter 2014 Sampling Event
Table 2.6 Sidegradient and Downgradient Monitoring Wells, Results for Second Quarter 2014 Sampling Event
Table 2.7 Focused Extraction Monitoring Wells at the FEW-14 Site, Results for Second Quarter 2014 Sampling Event

Table 3.1 Water Supply Wells, Results for Second Quarter Sampling Event

Table 4.1 Results for Second Quarter 2014 O&M Sampling Events, Operations and Maintenance Program

LIST OF FIGURES

Figure 2.1 Monitoring Well Second Quarter 2014 Sampling Locations

Figure 3.1 Water Supply Well Second Quarter 2014 Sampling Locations

Figure 4.1 Operation and Maintenance Second Quarter 2014 Sampling Locations

LIST OF APPENDICES

Appendix A	Concentration Trend Charts for Select Monitoring Wells
Appendix B	Concentration Trend Charts for Select Water Supply Wells
Appendix C	Quality Control Summary Report, Second Quarter 2014 Groundwater Monitoring Program Sampling Event, Former Nebraska Ordnance Plant (on CD)
Appendix D	Quality Control Summary Report, Second Quarter 2014 Water Supply Well Sampling Event, Former Nebraska Ordnance Plant (on CD)
Appendix E	Quality Control Summary Report, Second Quarter 2014 Operation and Maintenance Sampling Events, Former Nebraska Ordnance Plant (on CD)

LIST OF ACRONYMS AND ABBREVIATIONS

AMA	Atlas Missile Area
AOP	Advanced Oxidation Process
COC	contaminant of concern
DCE	dichloroethene
4A-DNT	4-amino-2,6-dinitrotoluene
EW	extraction well
FEW	focused extraction well
GAC	granular activated carbon
GCW	groundwater circulation well
GMP	Groundwater Monitoring Program
GTP	groundwater treatment plant
LL	load line
μg/L	micrograms per liter
MS	matrix spike
MSD	matrix spike duplicate
NDEQ	Nebraska Department of Environmental Quality
NOP	Nebraska Ordnance Plant
O&M	operation and maintenance
QAPP	Quality Assurance Project Plan
QC	quality control
QCSR	Quality Control Summary Report
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
TCE	trichloroethene
TNB	trinitrobenzene
TNT	trinitrotoluene
UV	ultraviolet
VOC	volatile organic compound
WSW	water supply well

1.0 INTRODUCTION

This report summarizes and discusses the results of the groundwater monitoring wells for the Groundwater Monitoring Program (GMP), water supply wells (WSW), and operation and maintenance (O&M) locations sampled during the Second Quarter 2014 at the former Nebraska Ordnance Plant (NOP). Sections 2.0, 3.0, and 4.0 contain a summary of results for the Second Quarter 2014 sampling events for the Operable Unit 2 Record of Decision (USACE, 1996) contaminants of concern (COCs) and other site-specific compounds.

Trend graphs are provided in Appendices A and B. The Quality Control Summary Reports (QCSRs) for the GMP, WSW, and O&M sampling events completed in Second Quarter 2014 are provided on CD in Appendices C, D, and E, respectively.

Historical data and information prior to 2013 are presented in various documents including the following:

- *Supplemental Remedial Investigation/Feasibility Study, Operable Unit No. 1* (USACE, 1992);
- *Remedial Investigation Report, Operable Unit No. 2 (Groundwater)* (USACE, 1993);
- *Aquifer Characterization Report Operable Unit No. 2 (Groundwater)* (USACE, 2011);
- *Groundwater Monitoring Program Optimization Investigation Report, Operable Unit No. 2 (Groundwater)* (USACE, 2012); and
- GMP and O&M Annual Reports from 2000 through 2013.

The objectives of the GMP, WSW, and O&M activities were established and presented in the *Site-Wide Work Plan* (USACE, 2014), which includes the Field Sampling Plan and Quality Assurance Project Plan (QAPP). The objectives are to:

- Monitor and evaluate potential changes in the concentrations of COCs, as shown on Table 1.1 and defined in the *Record of Decision* (USACE, 1996);
- Minimize exposure of surrounding residents to contaminated groundwater potentially impacting private WSWs by conducting routine monitoring and providing alternative water supplies;
- Monitor and evaluate the concentration of contaminants in groundwater plumes;
- Provide data for evaluating whether plume(s) are being contained by the groundwater extraction well (EW) network; and
- Treat and discharge extracted groundwater to meet applicable standards.

2.0 SUMMARY OF SECOND QUARTER 2014 GROUNDWATER MONITORING PROGRAM SAMPLING EVENT

The following sections are a summary of the monitoring well sampling event completed under the GMP.

2.1 FIELD SAMPLING

Samples were collected from 181 groundwater monitoring wells during the Second Quarter 2014 monitoring well sampling event and are summarized below:

- 39 monitoring wells were sampled for volatile organic compounds (VOCs) only;
- 34 monitoring wells were sampled for explosives only;
- 108 monitoring wells were sampled for explosives and VOCs;
- 15 field duplicate samples were collected for explosives and 15 field duplicates were collected for VOCs;
- 13 matrix spike (MS)/matrix spike duplicate (MSD) pairs were collected for VOCs, and 8 MS/MSD pairs were collected for explosives; and
- 9 trip blanks were included with the shipments of VOCs.

Perimeter monitoring well MW-83B that could not be sampled in the first quarter because of an obstruction in the well also was sampled in the Second Quarter along with the wells planned for sampling. Sampling of MW-40B, MW-72A, MW-72B is conducted in the Second Quarter for both the GMP and as part of the O&M program to evaluate the performance of groundwater circulation well (GCW)-01. MW-73A and MW-73B are included in the Second Quarter monitoring well sampling event, but the results are used solely to evaluate the performance of GCW-01.

2.2 ANALYTICAL RESULTS

The Second Quarter 2014 monitoring well validated analytical results for all site-specific compounds are presented in Tables 2.1 through 2.7. Figure 2.1 illustrates all GMP monitoring wells sampled during this sampling event. Groundwater monitoring well results are presented based on the following well categories defined in the 2014 GMP Plan included as Attachment 3 of the Field Sampling Plan, Appendix A of the *Site-Wide Work Plan* (USACE, 2014):

- Perimeter groundwater monitoring wells;
- Compliance groundwater monitoring wells;
- Interior Plume groundwater monitoring wells in the load line (LL)1 contaminant plume;
- Interior Plume groundwater monitoring wells in the LL2 and LL3 contaminant plumes;
- Interior Plume groundwater monitoring wells in LL4 contaminant plume, which includes the landfill and Atlas Missile Area (AMA) areas;
- Focused Extraction groundwater monitoring wells at the focused extraction well (FEW)-11, FEW-14, and FEW-15 sites; and
- Sidegradient and Downgradient groundwater monitoring wells.

A summary of the former NOP groundwater monitoring well categories that were sampled during the Second Quarter 2014 sampling event is found below. The tables where results for site-specific compounds are summarized are shown in parenthesis:

- 6 Perimeter monitoring wells (Table 2.1);
- 27 Compliance monitoring wells (Table 2.2);
- 29 LL1 Interior Plume monitoring wells (Table 2.3);
- 23 LL2 and LL3 Interior Plume monitoring wells (Table 2.4);
- 65 LL4/landfill/AMA Interior Plume monitoring wells (including MW-73A and MW-73B) (Table 2.5);
- 26 Sidegradient, and Downgradient monitoring wells (Table 2.6); and
- 5 Focused Extraction monitoring wells (Table 2.7).

Appendix A contains trend charts for groundwater monitoring wells sampled during the Second Quarter 2014 sampling event. All trend charts require four or more data points to be included in this report.

2.3 GROUNDWATER MONITORING PROGRAM SUMMARY

The following is a summary of the GMP results for the Second Quarter 2014 sampling event:

- Explosive COC, hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), was detected in Perimeter monitoring well MW-83B at a concentration of 0.12J μg/L (Table 2.1), which is below the Final Target Groundwater Cleanup Goal of 2 micrograms per liter (μg/L). In the Third Quarter 2013, RDX was detected at this is the same concentration at this well. No other explosive COCs or any VOC COCs were detected in the Perimeter wells sampled this quarter.
- RDX was detected in the Compliance monitoring wells MW-100B (0.35 μg/L) and MW-86D (0.94 μg/L), but at concentrations below the RDX Final Target Groundwater Cleanup Goal of 2 μg/L (Table 2.2). RDX concentrations increased from First Quarter 2013 at both of these locations. The MW-100 and MW-86 locations are downgradient of LL3 contaminant plume (Figure 2.1). No other explosive COCs were detected in the Compliance monitoring wells sampled this quarter. The only VOC detected in a Compliance monitoring well in the Second Quarter 2014 was vinyl chloride which was reported at a concentration of 0.65J μg/L in MW-98D. No Final Target Groundwater Cleanup Goal is established for vinyl chloride. MW-98D is located downgradient between the LL2 and LL3 explosive-contaminated plumes. Vinyl chloride also was detected in MW-98D at 0.36J μg/L in 2012. This well was not sampled in 2013.
- Explosive COCs RDX, trinitrobenzene (TNB), and trinitrotoluene (TNT) were detected in LL1 Interior Plume monitoring wells at concentrations exceeding their Final Target Groundwater Cleanup Goals in 8 wells, six wells, and two wells, respectively (Table 2.3). RDX concentrations ranged from 0.12J μg/L to 59.3 μg/L. The highest concentration of RDX was observed in MW-141B (Figure 2.1). TNB concentrations ranged from 0.36 μg/L to 156 μg/L. The TNB Final Target Groundwater Cleanup Goal is 0.778 μg/L. The highest concentration of TNB was observed in MW-127E, located near the north end of the LL1 contaminant plume and in the source area. TNT was detected in three wells from 2.2 μg/L to 70.8 μg/L with all detections exceeding

the Final Target Groundwater Cleanup Goal of 2 μg/L for TNT. The highest concentration was observed in MW-127E where TNB also was detected at its highest level in the LL1 plume. Other explosive COCs were detected in one or more samples, but at concentrations below their established Final Target Groundwater Cleanup Goals. Trichloroethene (TCE) was detected in 27 of the 29 LL1 wells that were sampled for VOCs in the Second Quarter 2014. TCE concentrations ranged from 6.6 μg/L to 11,600 μg/L. The highest concentration of TCE was observed in MW-124B (Figure 2.1). Other VOC COCs were detected in one or more samples, but at concentrations below their established Final Target Groundwater Cleanup Goals. The COC cis-1,2-DCE does not have a Final Target Groundwater Cleanup Goal. However, the cis-1,2-DCE concentrations in MW-124A, MW-126D, MW-141A, and MW-24A do exceed the U.S. Environmental Protection Agency Maximum Contaminant Level of 70 μg/L (Table 2.3).

- RDX was detected above its Final Target Groundwater Cleanup Goal of 2 μg/L in 15 of the 23 samples analyzed for explosives in the LL2 and LL3 Interior Plume wells sampled in Second Quarter 2014 (Table 2.4). RDX concentrations ranged from 0.12J μg/L to 107 μg/L, with the highest concentration observed in the LL2 well MW-144E (Figure 2.1). At the MW-180 location, between EW-7 and EW-9, RDX was detected in MW-180A and MW-180E at concentrations of 49.3 μg/L and 28.2 μg/L, respectively. At both locations, the RDX concentrations changed less than 6 percent from the concentrations observed during First Quarter 2014. The MW-180 location is of particular concern because the extent of the LL2 plume has shown an increase in that area (USACE, 2013). Other explosive COCs were detected in one or more samples, but at concentrations below established Final Target Groundwater Cleanup Goals. No COC detections were observed in the six LL2 and LL3 monitoring wells sampled for VOCs in the Second Quarter 2014.
- RDX was detected above its Final Target Groundwater Cleanup Goal in 9 of the 39 LL4/AMA/Landfill monitoring wells sampled for explosives in the Second Quarter 2014. RDX concentrations ranged from 0.18J μg/L to 17.8 μg/L (Table 2.5). The highest concentration was observed in MW-11 (Figure 2.1). Other explosive COCs were detected in one or more samples, but at concentrations below established Final Target Groundwater Cleanup Goals. TCE was detected in 50 of the 62 LL4/AMA/Landfill monitoring wells sampled for VOCs in Second Quarter 2014 at concentrations ranging from 0.40J μg/L to 4,860 μg/L. The highest concentration was detected at MW-137E, which is located southeast and immediately downgradient of the AMA. Other VOC COCs were detected in one or more samples, but at concentrations below established Final Target Groundwater Cleanup Goals.
- TCE was detected at concentrations ranging from 1.3 μg/L to 578 μg/L in the five monitoring wells (MW-40B, MW-72A, MW-72B, MW-73A, MW-73B) sampled to evaluate the performance of GCW-01 in the LL4/AMA/Landfill plume (Table 2.5). The MW-72 location is upgradient of the GCW; the MW-40 location is near downgradient and MW-73 is farther downgradient of GCW-01. TCE concentrations in MW-72B (578 μg/L) have a generally declining trend since 2004 (Appendix A). TCE concentrations at MW-73B significantly decreased from Second Quarter 2011 (400 μg/L) to Second Quarter 2014 (1.5 μg/L). In general, TCE levels in MW-40B (205

μg/L) and MW-73B (1.5 μg/L) have shown considerable fluctuation in during the GMP (Appendix A). Deeper wells MW-72A and MW-73A continue to have overall low TCE concentrations.

- RDX was detected in 5 of the 18 Sidegradient and Downgradient monitoring wells sampled in the Second Quarter 2014 at concentrations ranging from 0.22J μg/L to 0.76 μg/L (Table 2.6). None of the detected RDX concentrations exceeded the Final Target Groundwater Cleanup Goal of 2 μg/L. The only other explosive COC detected in the Sidegradient and Downgradient monitoring wells was 4-amino-2,6-dinitrotoluene (4A-DNT) at a concentration of 0.13J μg/L in MW-33A. 4A-DNT does not have an established Final Target Groundwater Cleanup Goal. TCE was detected in 5 of the 15 Sidegradient and Downgradient monitoring wells that were sampled for VOCs in Second Quarter 2014. The TCE concentrations in MW-25B (34.0 μg/L), MW-89B (47.4 μg/L), and MW-89E (1,140 μg/L), exceeded the TCE Final Target Groundwater Cleanup Goal of 5 μg/L. The VOC cis-1,2-DCE was detected in two wells. Although cis-1,2-DCE does not have an established Final Target Groundwater Cleanup Goal, the detections were well below the U.S. Environmental Protection Agency Maximum Contaminant Level of 70 μg/L (Table 2.7).
- RDX was detected in four of the five monitoring wells sampled to evaluate FEW-14 in the LL3 plume. These were the only FEW monitoring wells sampled in Second Quarter 2014. Concentrations ranged from 0.42 μg/L to 2.1 μg/L with the highest concentration observed at MW-131A exceeding the RDX Final Target Groundwater Cleanup Goal. At the MW-128 location southwest of FEW-14 (Figure 2.1), RDX concentrations have continued to decline since December 2009, and are now below the Final Target Groundwater Cleanup Goal. At the MW-131 location farther downgradient near the leading edge of the LL3 RDX plume, MW-131A and MW-131B concentrations are generally declining (Appendix A). Although RDX concentrations at MW-131D have been increasing since 2012, they remain below the Final Target Groundwater Cleanup Goal. It should be noted that FEW-14 is screened above the depth of the MW-131D screened zone. None of the FEW monitoring wells were sampled for VOCs in Second Quarter 2014.

3.0 SUMMARY OF SECOND QUARTER 2014 WATER SUPPLY WELL SAMPLING EVENT

The following sections are a summary of the WSW sampling event. It should be noted that some residences have granular activated carbon (GAC) groundwater treatment units provided as an alternative water supply where a COC was detected above its Final Target Groundwater Cleanup Goal. At these sample locations, a sample is collected before the treatment unit (noted by a "-B" after the well number), and after the treatment unit.

3.1 FIELD SAMPLING

During the WSW sampling event, four WSW locations were sampled. In addition, the following samples were collected:

- One field duplicate sample;

- One VOC MS/MSD samples and one explosives MS/MSD sample; and
- Two trip blank.

Four WSW locations were sampled in Second Quarter 2014: WSW-97, WSW-114, WSW-52C (collected after the treatment unit), and WSW-52C-B (collected before the treatment unit). These four locations were planned for sampling in First Quarter 2014. However, samples could not be collected because either the property owner had turned off the water in the winter, or pipes had frozen and sampling was not possible.

3.2 ANALYTICAL RESULTS

The WSW validated analytical results for site-specific compounds are presented in Table 3.1. Figure 3.1 illustrates the WSWs sampled during the Second Quarter 2014 sampling event.

3.3 WATER SUPPLY WELL SUMMARY

During the WSW sampling event, the VOCs TCE and cis-1,2-DCE were detected in the sample before the GAC treatment unit (WSW-52C-B) at the WSW-52C residence. The TCE concentration of 194 μg/L in WSW-52C-B exceeds the Final Target Groundwater Cleanup Goal of 5 μg/L. Although cis-1,2-DCE does not have an established Final Target Groundwater Cleanup Goal, the detection of 2.8 μg/L in WSW-52C-B was below the U.S. Environmental Protection Agency Maximum Contaminant Level of 70 μg/L. The sample collected from WSW-52C after the GAC treatment unit was nondetect for VOCs. No other VOCs, or any explosives, were detected in the WSW samples. As noted in Table 3.1, total suspended solids were detected at 2.9 μg/L in WSW-52C-B (pre-treatment unit sample).

Appendix B contains trend charts for WSWs sampled during the Second Quarter 2014 sampling event. The TCE concentration for WSW-52C-B has been increasing since Third Quarter 2012.

4.0 SUMMARY OF SECOND QUARTER 2014 OPERATION AND MAINTENANCE SAMPLING EVENTS

The following sections are a summary of the O&M sampling events that occurred in April, May, and June 2014. It should be noted that the Main groundwater treatment plant (GTP) was taken offline on April 30, 2014.

4.1 FIELD SAMPLING

During the O&M sampling events, the following field samples were collected:

- Influent and effluent water samples for VOCs and explosives from the Main GTP in April;
- Effluent water samples for VOCs and explosives from each of the operating Main GTP GAC vessels 310, 330, and 350 in April;
- Monthly influent and effluent water samples for VOCs at the LL1 GTP;

- Quarterly influent and effluent water samples for explosives at the LL1 GTP in May;
- Monthly influent and effluent water samples for VOCs at the LL4 GTP;
- Quarterly influent and effluent water samples for explosives from the LL4 GTP in May;
- Monthly water samples for VOCs from EW-12 and EW-17;
- Quarterly water samples for VOCs from EW-1R and FEW-15 in May;
- Quarterly water samples for explosives from EW-1R, FEW-15, EW-12, and EW-17 in May;
- Monthly effluent water samples for explosives from the advanced oxidation process (AOP) ultraviolet (UV) treatment systems installed at EW-4, EW-7, EW-9, and FEW-14;
- Quarterly influent water samples for explosives and VOCs from the AOP UV treatment systems at EW-4, EW-7, EW-9, and FEW-14 in May;
- Monthly influent and effluent water samples for explosives, and monthly influent water samples for VOCs from the FEW-11 AOP UV treatment system;
- Monthly effluent water samples for VOCs at the AOP GTP (two samples were collected in May near the beginning and end of the month);
- Monthly effluent water samples for explosives and VOCs from the sampling vault at the newly installed Wahoo Creek Outfall in May and June;
- Quarterly influent and effluent water sample for VOCs from GCW-01 in May; and
- Quarterly effluent air samples for TCE at the LL1 GTP and the LL4 GTP in May.

A trip blank was included in each shipment that contained field samples scheduled for analysis of VOCs. Field quality control duplicate samples and MS/MSD samples are not collected for the O&M sampling program. The Second Quarter 2014 sampling requirements compiled with the O&M sampling schedule are provided in Attachment 3 of the Field Sampling Plan, Appendix A of the *Site-Wide Work Plan* (USACE, 2014).

4.2 ANALYTICAL RESULTS

The O&M analytical results for site-specific compounds are presented in Table 4.1. Figure 4.1 illustrates all O&M locations sampled during the Second Quarter 2014.

4.3 OPERATION AND MAINTENANCE SUMMARY

During Second Quarter 2014, all extracted groundwater was treated on-site using GAC adsorption, AOP, or air stripping. With the fully operational and proven AOP UV units online, GAC adsorption at the Main GTP was discontinued from regular use as a groundwater treatment technology on April 30, 2014. Treated groundwater was properly disposed of through surface discharge or beneficial re-use. During the Second Quarter 2014 O&M sampling events, there were no detections of RDX or TCE that exceeded the substantive requirements of the National Pollutant Discharge Elimination System permit equivalence standards at the outfall locations. The TCE results for air samples are compared to anticipated

TCE concentrations in the influent of the treatment system. Effluent air standards are monitored to ensure the amount of TCE emitted per year remains below the Nebraska Department of Environmental Quality (NDEQ) permitted threshold of 5 tons per year (NDEQ, 1998). All effluent air sample results were below the threshold amount and are presented in Table 4.1.

5.0 DATA VALIDATION RESULTS

Data from the Second Quarter 2014 GMP and WSW sampling events were validated in accordance with project-required criteria and appropriate qualifiers were assigned to data. Beginning in 2014, O&M analytical data did not receive independent validation because it is not part of the reporting requirements. However, the separate laboratory data packages are reviewed by the lab chemist before the data are reported.

Data validation for the former NOP GMP and WSW data was performed in accordance with the Data Management and Validation protocols provided as Attachment 1 of the QAPP, which is Appendix B of the *Site-Wide Work Plan* (USACE, 2014). Data validation elements include an evaluation of holding times, a comparison of both field and laboratory duplicate results, a review of trip blank results, and an evaluation of other quality control measurements reported by the laboratory.

The Quality Control Summary Reports for the GMP, WSW, and O&M sampling events (provided as Appendices C, D, and E, respectively) present the following information:

- Locations sampled,
- Planned and actual sample collection and analyses, and
- Detailed results of the data validation for all sampling events (including quality control outliers, data qualifiers, sample collection summaries, data summary tables, and completeness calculations).

Each Quality Control Summary Report contains appendices that provide sample chain of custody records, field sampling documents consisting of water quality parameter forms, daily chemical quality control reports, and daily field logbook pages, data validation qualifiers reference sheet, and the complete analytical laboratory report for the associated sampling event.

6.0 SECOND QUARTER 2014 SAMPLING EVENTS SUMMARY

Based on the results of the Second Quarter 2014 GMP, WSW, and O&M sampling events, the 2014 Sampling Plans that were previously developed are sufficient and meet the following objectives:

- Monitor and evaluate potential changes in the concentrations of COCs defined in the *Record of Decision* (USACE, 1996);
- Minimize exposure of surrounding residents by conducting routine monitoring and providing alternative water supplies;

- Monitor and evaluate the concentrations of contaminants in the groundwater plumes;
- Provide data for evaluating whether the plume(s) are being contained by the groundwater extraction well network; and
- Treat and discharge extracted groundwater to meet applicable standards.

GMP, WSW and O&M sampling programs will continue as planned for the remaining 2014 quarterly sampling events.

7.0 REFERENCES

Nebraska Department of Environmental Quality (NDEQ), 1998. *Final Effluent Limitations Monitoring Requirements*. October.

U.S. Army Corps of Engineers (USACE), 1992. *Supplemental Remedial Investigation/ Feasibility Study, Operable Unit No. 1, Former Nebraska Ordnance Plant, Mead, Nebraska*. Prepared by SEC Donohue under Contract DACW41-90-D-0009. September.

USACE, 1993. *Remedial Investigation Report, Operable Unit No. 2 (Groundwater), Former Nebraska Ordnance Plant, Mead, Nebraska*. Prepared by Woodward-Clyde under Contract DACA-41-92-C-0023. May.

USACE, 1996. *Record of Decision, Operable Unit No. 2 (Groundwater), Former Nebraska Ordnance Plant, Mead, Nebraska*. Prepared by Woodward-Clyde under Contract No. DACA41-92-C-0023. April.

USACE, 2011. *Aquifer Characterization Report Operable Unit No. 2 (Groundwater), Former Nebraska Ordnance Plant, Mead, Nebraska*. Prepared by ECC and Burns & McDonnell. March.

USACE, 2012. *Groundwater Monitoring Program Optimization Investigation Report, Operable Unit No. 2 (Groundwater), Former Nebraska Ordnance Plant, Mead, Nebraska*. Prepared by ECC. June.

USACE, 2013. *Monitoring Well MW-180 and Surrounding Area Groundwater Sampling Results Technical Memorandum,* Former Nebraska Ordnance Plant, Mead, Nebraska. Prepared by ECC. December.

USACE, 2014. *Site-Wide Work Plan, Former Nebraska Ordnance Plant. Mead, Nebraska*. Prepared by HydroGeoLogic, Inc. under Contract W912DQ-13-D-3000, Task Order 0002. April.

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TABLE(S)

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Table 1.1
Final Target Groundwater Cleanup Goals
Second Quarter 2014 Quarterly Summary Report
Former Nebraska Ordnance Plant, Mead, Nebraska

Contaminants of Concern	Final Target Groundwater Cleanup Goal (μg/L)
Volatile Organic Compounds	
methylene chloride	5
1,2-dichloropropane (1,2-DCP)	5
trichloroethene (TCE)	5
Explosive Compounds	
trinitrobenzene (TNB)	0.778
2,4-dinitrotoluene (2,4-DNT)	1.24
hexahydro-l,3,5-trinitro-1,3,5-triazine (RDX)	2
Trinitrotoluene (TNT)	2

Notes:
Italics - Indicator compounds used to define groundwater contamination at the former Nebraska Ordnance Plant.
μg/L - micrograms per liter

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Table 2.1 Perimeter Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-83B	05/14/2014	0.22 U	0.24 U	0.22 U	**0.12 J**	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.1 Perimeter Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-102A	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-102B	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-103A	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-103B	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-103D	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-83B	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.2 Compliance Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-100A	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-100B	05/14/2014	0.21 U	0.24 U	0.21 U	**0.35**	0.21 U	0.21 U
MW-100D	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-101A	05/15/2014	0.21 U	0.24 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-101B	05/15/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-101D	05/15/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-20A	05/15/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-20B	05/15/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-20C	05/15/2014	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-61A	05/21/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
MW-61B	05/21/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
MW-61D	05/21/2014	0.27 U	0.30 U	0.27 U	0.27 U	0.27 U	0.27 U
MW-82A	05/14/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-82B	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-82D	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-86A	05/16/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-86B	05/16/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-86D	05/16/2014	0.22 U	0.24 U	0.22 U	**0.94**	0.22 U	0.22 U
MW-96A	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-96B	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-96D	05/14/2014	0.21 U	0.24 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-97A	05/14/2014	0.21 U	0.24 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-97B	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-97D	05/14/2014	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-98A	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.2 Compliance Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-98B	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-98D	05/14/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.2 Compliance Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	1,2-DCP	CIS-1,2-DCE	Methylene Chloride	TCE	TRANS-1,2-DCE	Vinyl Chloride
MW-100A	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-100B	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-100D	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-101A	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-101B	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-101D	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-20A	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-20B	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-20C	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-61A	05/21/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-61B	05/21/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-61D	05/21/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-82A	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-82B	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-82D	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-86A	05/16/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-86B	05/16/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-86D	05/16/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-96A	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-96B	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-96D	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-97A	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-97B	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-97D	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-98A	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.2 Compliance Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-98B	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-98D	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	**0.65 J**

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.3 LL1 Interior Plume Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-02A	05/19/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-02B	05/19/2014	0.23 U	**2.5**	**2.7**	**3.9**	**1.5**	**2.7**
MW-03A	05/19/2014	0.23 U	0.25 U	0.23 U	**1.4**	0.23 U	0.23 U
MW-03B	05/19/2014	0.31 U	0.34 U	0.31 U	0.31 U	0.31 U	0.31 U
MW-124A	05/19/2014	0.22 U	0.24 U	0.22 U	**1.5**	0.22 U	0.22 U
MW-124B	05/19/2014	0.22 U	0.25 U	**1.9**	**22.0**	**0.79**	0.22 U
MW-124D	05/19/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-125A	05/19/2014	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-125B	05/19/2014	0.23 U	0.25 U	**2.9**	**6.9**	**2.2 J**	0.23 U
MW-125D	05/19/2014	0.24 U	0.27 U	0.24 U	0.24 U	0.24 U	0.24 U
MW-126A	05/19/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-126B	05/19/2014	0.22 U	**0.30 J**	**11.4**	**17.2**	**10.6**	0.22 U
MW-126D	05/19/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-127A	05/19/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-127B	05/19/2014	0.22 U	**0.61**	**0.55**	0.22 U	**0.36**	**2.2**
MW-127E	05/19/2014	0.22 U	**1.7**	**2.0**	**0.53**	**156**	**70.8**
MW-141A	05/20/2014	0.23 U	0.26 U	0.23 U	**0.46**	0.23 U	0.23 U
MW-141B	05/20/2014	0.23 U	**4.0**	**6.8**	**59.3**	**2.0**	0.23 U
MW-141E	05/20/2014	0.21 U	**0.25 J**	**3.2**	**15.9**	**0.64**	0.21 U
MW-142A	05/15/2014	0.30 U	0.34 U	0.30 U	**0.47**	0.30 U	0.30 U
MW-142E	05/15/2014	R	R	R	**0.43 J**	R	R
MW-21A	05/19/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-21B	05/19/2014	0.22 U	**0.51**	**6.6**	**9.8**	**0.81**	0.22 U
MW-21D	05/19/2014	0.28 U	0.32 U	0.28 U	0.28 U	0.28 U	0.28 U
MW-24A	05/20/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).
R - Contaminant concentration was rejected due to a serious QC deficiency.

Table 2.3 LL1 Interior Plume Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-24B	05/20/2014	0.21 U	**0.26 J**	**2.9**	**14.1**	**0.43**	0.21 U
MW-90A	05/15/2014	0.22 U	0.24 U	0.22 U	**0.49**	0.22 U	0.22 U
MW-90B	05/15/2014	0.22 U	0.24 U	0.22 U	**0.12 J**	0.22 U	0.22 U
MW-90D	05/15/2014	0.22 U	0.25 U	0.22 U	**0.39**	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.3 LL1 Interior Plume Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	1,2-DCP	CIS-1,2-DCE	Methylene Chloride	TCE	TRANS-1,2-DCE	Vinyl Chloride
MW-02A	05/19/2014	0.60 U	**53.1**	2.0 U	**129**	**17.2**	0.60 U
MW-02B	05/19/2014	0.60 U	0.60 U	2.0 U	**90.6 J**	0.60 U	0.60 U
MW-03A	05/19/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-03B	05/19/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-124A	05/19/2014	0.60 U	**550**	2.0 U	**8390**	**6.3**	0.60 U
MW-124B	05/19/2014	0.60 U	**18.2**	2.0 U	**11600**	**2.1**	0.60 U
MW-124D	05/19/2014	0.60 U	**4.2**	2.0 U	**758**	0.60 U	0.60 U
MW-125A	05/19/2014	0.60 U	**3.8**	2.0 U	**601**	0.60 U	0.60 U
MW-125B	05/19/2014	0.60 U	**7.6**	2.0 U	**4860**	0.60 U	0.60 U
MW-125D	05/19/2014	0.60 U	**0.59 J**	2.0 U	**88.4 J**	0.60 U	0.60 U
MW-126A	05/19/2014	30.0 U	**41.5 J**	100 U	**4830**	30.0 U	30.0 U
MW-126B	05/19/2014	30.0 U	30.0 U	100 U	**7880**	30.0 U	30.0 U
MW-126D	05/19/2014	3.0 U	**469**	10.0 U	**374**	3.0 U	3.0 U
MW-127A	05/19/2014	0.60 U	**2.4**	2.0 U	**7.6**	**1.4**	0.60 U
MW-127B	05/19/2014	0.60 U	**12.1**	2.0 U	**47.2**	**8.0**	0.60 U
MW-127E	05/19/2014	0.60 U	0.60 U	2.0 U	**16.2**	0.60 U	0.60 U
MW-141A	05/20/2014	30.0 U	**2730 J**	100 U	**5800 J**	30.0 U	30.0 U
MW-141B	05/20/2014	60.0 U	60.0 U	200 U	**6640**	60.0 U	60.0 U
MW-141E	05/20/2014	60.0 U	60.0 U	200 U	**6030**	60.0 U	60.0 U
MW-142A	05/15/2014	0.60 U	0.60 U	2.0 U	**247**	0.60 U	0.60 U
MW-142E	05/15/2014	0.60 U	**4.6**	2.0 U	**78.7**	0.60 U	0.60 U
MW-21A	05/19/2014	0.60 U	**2.8**	2.0 U	**6.6**	**3.5**	0.60 U
MW-21B	05/19/2014	1.2 U	1.2 U	4.0 U	**100**	1.2 U	1.2 U
MW-21D	05/19/2014	0.60 U	**31.8**	2.0 U	**274**	**14.2**	0.60 U
MW-24A	05/20/2014	6.0 U	**217**	20.0 U	**533**	**7.4 J**	6.0 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.3 LL1 Interior Plume Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-24B	05/20/2014	0.60 U	0.60 U	2.0 U	**35.0**	0.60 U	0.60 U
MW-90A	05/15/2014	0.60 U	**0.47 J**	2.0 U	**520**	0.60 U	0.60 U
MW-90B	05/15/2014	0.60 U	0.60 U	2.0 U	**111**	0.60 U	0.60 U
MW-90D	05/15/2014	0.60 U	**15.3**	2.0 U	**305**	**20.4**	0.60 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.4 LL2 and LL3 Interior Plume Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-130A	05/13/2014	0.22 U	0.25 U	**0.11 J**	**1.3**	0.22 U	0.22 U
MW-130B	05/13/2014	0.23 U	0.26 U	0.23 U	**0.66**	0.23 U	0.23 U
MW-130D	05/13/2014	0.21 U	0.24 U	0.21 U	**0.12 J**	0.21 U	0.21 U
MW-143B	05/15/2014	0.21 U	**0.22 J**	**1.4**	**14.4**	**0.24 J**	0.21 U
MW-144A	05/15/2014	0.22 U	**0.15 J**	**0.24 J**	**60.5**	**0.14 J**	0.22 U
MW-144E	05/15/2014	0.21 U	**1.5**	**1.1**	**107**	**0.54**	0.21 U
MW-145A	05/15/2014	0.22 U	0.24 U	0.22 U	**11.4**	0.22 U	0.22 U
MW-145E	05/15/2014	0.22 U	**0.13 J**	**0.97**	**76.2**	0.22 U	0.22 U
MW-148B	05/15/2014	0.23 U	0.25 U	**1.5**	**16.4**	0.23 U	0.23 U
MW-149A	05/15/2014	0.23 U	0.25 U	**0.82**	**20.1**	**0.18 J**	0.23 U
MW-150A	05/27/2014	0.24 U	0.27 U	0.24 U	**1.2**	0.24 U	0.24 U
MW-150B	05/27/2014	0.26 U	0.29 U	**1.1**	**11.5**	**0.16 J**	0.26 U
MW-180A	05/14/2014	0.22 U	0.24 U	**0.34**	**49.3**	0.22 U	0.22 U
MW-180E	05/14/2014	0.22 U	0.24 U	**0.28 J**	**28.2**	0.22 U	0.22 U
MW-29A	05/19/2014	0.22 U	0.24 U	0.22 U	**1.7**	0.22 U	0.22 U
MW-29B	05/19/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-32A	05/20/2014	0.22 U	0.24 U	**0.12 J**	**3.9**	0.22 U	0.22 U
MW-32B	05/20/2014	0.21 U	0.24 U	0.21 U	**5.2**	0.21 U	0.21 U
MW-32D	05/20/2014	0.22 U	0.24 U	0.22 U	**5.9**	0.22 U	0.22 U
MW-65B	05/20/2014	0.22 U	**0.14 J**	0.22 U	**2.9**	0.22 U	0.22 U
MW-99A	05/13/2014	0.21 U	0.24 U	0.21 U	**0.31 J**	0.21 U	0.21 U
MW-99B	05/13/2014	0.22 U	0.24 U	0.22 U	**1.4**	0.22 U	0.22 U
MW-99D	05/13/2014	0.22 U	0.25 U	0.22 U	**3.1**	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.4 LL2 and LL3 Interior Plume Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-143B	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-148B	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-149A	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-150A	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-150B	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-99B	05/13/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.5 LL4, AMA, and Landfill Interior Plume Monitoring Wells

Results for Second Quarter Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-104A	05/27/2014	0.26 U	0.29 U	0.26 U	**0.39**	0.26 U	0.26 U
MW-104B	05/27/2014	0.25 U	0.28 U	0.25 U	**0.34 J**	0.25 U	0.25 U
MW-104D	05/27/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-104O	05/27/2014	0.21 U	0.24 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-105A	05/28/2014	0.23 U	0.25 U	0.23 U	0.23 U	0.23 U	0.23 U
MW-105B	05/28/2014	0.27 U	0.30 U	0.27 U	0.27 U	0.27 U	0.27 U
MW-105O	05/28/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-109A	05/28/2014	0.23 U	0.26 U	0.23 U	**4.5**	0.23 U	0.23 U
MW-109B	05/28/2014	0.27 U	0.30 U	0.27 U	**3.6**	0.27 U	0.27 U
MW-109O	05/28/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-11	05/20/2014	0.22 U	0.24 U	0.22 U	**17.8**	0.22 U	0.22 U
MW-111A	05/28/2014	0.22 U	0.25 U	0.22 U	**0.33 J**	0.22 U	0.22 U
MW-111B	05/28/2014	0.23 U	0.26 U	0.23 U	**0.19 J**	0.23 U	0.23 U
MW-111O	05/28/2014	0.21 U	0.24 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-151A	05/13/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-151B	05/13/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-152B	05/13/2014	0.22 U	0.24 U	0.22 U	**1.5**	0.22 U	0.22 U
MW-153A	05/13/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-153B	05/13/2014	0.22 U	0.24 U	0.22 U	**0.46**	0.22 U	0.22 U
MW-154A	05/13/2014	0.22 U	0.24 U	**0.14 J**	**4.1**	0.22 U	0.22 U
MW-154B	05/13/2014	0.22 U	0.24 U	0.22 U	**2.5**	0.22 U	0.22 U
MW-155A	05/13/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-155E	05/13/2014	0.22 U	0.24 U	0.22 U	**0.26 J**	0.22 U	0.22 U
MW-156A	05/16/2014	0.22 U	0.24 U	**0.13 J**	**1.1**	0.22 U	0.22 U
MW-156B	05/16/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.5 LL4, AMA, and Landfill Interior Plume Monitoring Wells

Results for Second Quarter Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-157A	05/16/2014	0.22 U	0.24 U	0.22 U	**0.53**	0.22 U	0.22 U
MW-157B	05/16/2014	0.22 U	0.24 U	0.22 U	**0.18 J**	0.22 U	0.22 U
MW-18A	05/13/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
MW-18B	05/13/2014	0.23 U	0.26 U	0.23 U	0.23 U	0.23 U	0.23 U
MW-18C	05/13/2014	0.22 U	0.24 U	0.22 U	**3.0**	0.22 U	0.22 U
MW-42A	05/13/2014	0.26 U	0.29 U	0.26 U	**2.5**	0.26 U	0.26 U
MW-42B	05/13/2014	0.28 U	0.31 U	0.28 U	0.28 U	0.28 U	0.28 U
MW-42D	05/13/2014	0.25 U	0.28 U	0.25 U	**2.9**	0.25 U	0.25 U
MW-43A	05/13/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
MW-43B	05/13/2014	0.26 U	**0.18 J**	**0.21 J**	**6.0**	0.26 U	0.26 U
MW-43D	05/13/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
MW-44A	05/16/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-44B	05/16/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-44D	05/16/2014	0.21 U	0.24 U	0.21 U	0.21 U	0.21 U	0.21 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.5 LL4, AMA, and Landfill Interior Plume Monitoring Wells

Results for Second Quarter Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-09A	05/21/2014	0.60 U	0.60 U	2.0 U	**16.7**	0.60 U	0.60 U
MW-09B	05/21/2014	0.60 U	0.60 U	2.0 U	**32.6**	0.60 U	0.60 U
MW-09D	05/21/2014	6.0 U	6.0 U	20.0 U	**466**	6.0 U	6.0 U
MW-104A	05/27/2014	6.0 U	**3.2 J**	20.0 U	**655**	6.0 U	6.0 U
MW-104B	05/27/2014	6.0 U	**3.6 J**	20.0 U	**637**	6.0 U	6.0 U
MW-104D	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-104O	05/27/2014	0.60 U	**2.8**	2.0 U	0.60 U	0.60 U	0.60 U
MW-105A	05/28/2014	0.60 U	**1.3**	2.0 U	**24.2**	0.60 U	0.60 U
MW-105B	05/28/2014	0.60 U	**1.4**	2.0 U	**23.5**	0.60 U	0.60 U
MW-105O	05/28/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-109A	05/28/2014	0.60 U	**0.91 J**	2.0 U	**19.6**	0.60 U	0.60 U
MW-109B	05/28/2014	0.60 U	**0.87 J**	2.0 U	**22.0**	0.60 U	0.60 U
MW-109O	05/28/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-111A	05/28/2014	0.60 U	0.60 U	2.0 U	**8.6**	0.60 U	0.60 U
MW-111B	05/28/2014	0.60 U	0.60 U	2.0 U	**11.1**	0.60 U	0.60 U
MW-111O	05/28/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-136A	05/21/2014	0.60 U	0.60 U	2.0 U	**1.9**	0.60 U	0.60 U
MW-136B	05/21/2014	1.2 U	**2.3**	4.0 U	**127**	1.2 U	1.2 U
MW-136D	05/21/2014	0.60 U	**0.44 J**	2.0 U	**48.9**	0.60 U	0.60 U
MW-136E	05/21/2014	0.60 U	**0.46 J**	2.0 U	**52.6**	0.60 U	0.60 U
MW-137A	05/21/2014	0.60 U	0.60 U	2.0 U	**9.9**	0.60 U	0.60 U
MW-137B	05/21/2014	6.0 U	**4.3 J**	20.0 U	**661**	6.0 U	6.0 U
MW-137E	05/21/2014	60.0 U	60.0 U	200 U	**4860**	60.0 U	60.0 U
MW-138A	05/27/2014	0.60 U	0.60 U	2.0 U	**1.4**	0.60 U	0.60 U
MW-138B	05/27/2014	15.0 U	**13.5 J**	50.0 U	**1750**	15.0 U	15.0 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.5 LL4, AMA, and Landfill Interior Plume Monitoring Wells

Results for Second Quarter Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	1,2-DCP	CIS-1,2-DCE	Methylene Chloride	TCE	TRANS-1,2-DCE	Vinyl Chloride
MW-139A	05/27/2014	0.60 U	0.60 U	2.0 U	**0.40 J**	0.60 U	0.60 U
MW-139B	05/27/2014	3.0 U	**2.0 J**	10.0 U	**226**	3.0 U	3.0 U
MW-140A	05/28/2014	0.60 U	0.60 U	2.0 U	**0.67 J**	0.60 U	0.60 U
MW-140B	05/28/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-140D	05/28/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-140O	05/28/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-151A	05/13/2014	0.60 U	**0.90 J**	2.0 U	**54.9**	0.60 U	0.60 U
MW-151B	05/13/2014	0.60 U	**3.0**	2.0 U	**894**	0.60 U	0.60 U
MW-152B	05/13/2014	0.60 U	**1.1**	2.0 U	**14.0**	0.60 U	0.60 U
MW-153A	05/13/2014	0.60 U	**2.1**	2.0 U	**642**	0.60 U	0.60 U
MW-153B	05/13/2014	0.60 U	**1.5**	2.0 U	**469**	0.60 U	0.60 U
MW-154A	05/13/2014	0.60 U	**0.73 J**	2.0 U	**40.8**	0.60 U	0.60 U
MW-154B	05/13/2014	0.60 U	**0.42 J**	2.0 U	**16.0**	0.60 U	0.60 U
MW-155A	05/13/2014	0.60 U	**3.5**	2.0 U	**1030**	0.60 U	0.60 U
MW-155E	05/13/2014	0.60 U	**2.5**	2.0 U	**776**	0.60 U	0.60 U
MW-156A	05/16/2014	0.60 U	0.60 U	2.0 U	**0.94 J**	0.60 U	0.60 U
MW-156B	05/16/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-157A	05/16/2014	0.60 U	0.60 U	2.0 U	**1.1**	0.60 U	0.60 U
MW-157B	05/16/2014	0.60 U	0.60 U	2.0 U	**30.9**	0.60 U	0.60 U
MW-18A	05/13/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-18B	05/13/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-18C	05/13/2014	0.60 U	0.60 U	2.0 U	**9.3**	0.60 U	0.60 U
MW-40A	05/21/2014	0.60 U	0.60 U	2.0 U	**2.3**	0.60 U	0.60 U
MW-40B	05/21/2014	2.4 U	2.4 U	8.0 U	**205**	2.4 U	2.4 U
MW-42A	05/13/2014	0.60 U	**0.41 J**	2.0 U	**83.4**	0.60 U	0.60 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.5 LL4, AMA, and Landfill Interior Plume Monitoring Wells

Results for Second Quarter Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-42B	05/13/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-42D	05/13/2014	0.60 U	**0.31 J**	2.0 U	**120**	0.60 U	0.60 U
MW-43A	05/13/2014	0.60 U	0.60 U	2.0 U	**28.4**	0.60 U	0.60 U
MW-43B	05/13/2014	0.60 U	0.60 U	2.0 U	**2.7**	0.60 U	0.60 U
MW-43D	05/13/2014	0.60 U	0.60 U	2.0 U	**10.6**	0.60 U	0.60 U
MW-44A	05/16/2014	0.60 U	**2.8**	2.0 U	**271**	0.60 U	0.60 U
MW-44B	05/16/2014	0.60 U	0.60 U	2.0 U	**11.7**	0.60 U	0.60 U
MW-44D	05/16/2014	0.60 U	0.60 U	2.0 U	**13.6**	0.60 U	0.60 U
MW-72A	05/21/2014	0.60 U	0.60 U	2.0 U	**2.9**	0.60 U	0.60 U
MW-72B	05/27/2014	6.0 U	**6.8 J**	20.0 U	**578**	6.0 U	6.0 U
MW-73A	05/21/2014	0.60 U	0.60 U	2.0 U	**1.3**	0.60 U	0.60 U
MW-73B	05/21/2014	0.60 U	0.60 U	2.0 U	**1.5**	0.60 U	0.60 U
MW-78A	05/21/2014	0.60 U	0.60 U	2.0 U	**0.81 J**	0.60 U	0.60 U
MW-78B	05/21/2014	0.60 U	**2.6**	2.0 U	**36.3**	0.60 U	0.60 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

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Table 2.6 Sidegradient and Downgradient Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-08A	05/21/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
MW-08B	05/21/2014	0.27 U	0.30 U	0.27 U	**0.68**	0.27 U	0.27 U
MW-129A	05/13/2014	0.21 U	0.24 U	0.21 U	**0.22 J**	0.21 U	0.21 U
MW-129B	05/13/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-129D	05/13/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-146A	05/14/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-146B	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-25A	05/20/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-25B	05/20/2014	0.21 U	0.24 U	0.21 U	0.21 U	0.21 U	0.21 U
MW-28A	05/20/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-28B	05/20/2014	0.22 U	0.24 U	0.22 U	**0.60**	0.22 U	0.22 U
MW-28D	05/20/2014	0.22 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-33A	05/20/2014	0.22 U	0.24 U	**0.13 J**	**0.76**	0.22 U	0.22 U
MW-33B	05/20/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-33D	05/20/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-89E	05/15/2014	0.22 U	0.24 U	0.22 U	**0.63**	0.22 U	0.22 U
MW-94A	05/20/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-94B	05/20/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.7 Sidegradient and Downgradient Monitoring Wells

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-08A	05/21/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-08B	05/21/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-146A	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-146B	05/14/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-25A	05/20/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-25B	05/20/2014	0.60 U	**0.34 J**	2.0 U	**34.0**	0.60 U	0.60 U
MW-89A	05/15/2014	0.60 U	0.60 U	2.0 U	**2.9**	0.60 U	0.60 U
MW-89B	05/15/2014	0.60 U	0.60 U	2.0 U	**47.4**	0.60 U	0.60 U
MW-89D	05/15/2014	0.60 U	0.60 U	2.0 U	**1.6**	0.60 U	0.60 U
MW-89E	05/15/2014	0.60 U	**1.4**	2.0 U	**1140**	0.60 U	0.60 U
MW-91A	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-91B	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-91D	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-93A	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
MW-93B	05/15/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 2.7 Focused Extraction Monitoring Wells at the FEW-14 Site

Results for Second Quarter 2014 Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-128A	05/14/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
MW-128B	05/14/2014	0.22 U	0.24 U	**0.59**	**0.96**	0.22 U	0.22 U
MW-131A	05/13/2014	0.22 U	0.24 U	**0.46**	**2.1**	0.22 U	0.22 U
MW-131B	05/13/2014	0.22 U	0.25 U	0.22 U	**0.58**	0.22 U	0.22 U
MW-131D	05/13/2014	0.21 U	0.24 U	0.21 U	**0.42**	0.21 U	0.21 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

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Table 3.1 Water Supply Wells

Results for Second Quarter Sampling Event

Water Supply Well Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
WSW-114	06/30/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
WSW-52C	06/26/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
WSW-52C-B	06/26/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U
WSW-97	06/26/2014	0.22 U	0.24 U	0.22 U	0.22 U	0.22 U	0.22 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 3.1 Water Supply Wells

Results for Second Quarter Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-114	06/30/2014	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
WSW-52C	06/26/2014	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
WSW-52C-B	06/26/2014	0.16 U	**2.8**	0.16 U	**194**	0.16 U	0.16 U
WSW-97	06/26/2014	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 3.1 Water Supply Wells

Results for Second Quarter Sampling Event

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Wet Chemistry

	Sampling Date	TSS
WSW-52C-B	06/26/2014	**2.9**

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

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Table 4.1 Operation and Maintenance

Results for Second Quarter O&M Sampling Events

Operations and Maintenance Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
EW-12	05/05/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
EW-17	05/05/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
EW-1R	05/05/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
EW-4_UVEFF	04/02/2014	0.26 U	0.29 U	**0.20 J**	**1.4**	0.26 U	0.26 U
EW-4_UVEFF	05/05/2014	0.27 U	0.30 U	**0.18 J**	**1.5**	0.27 U	0.27 U
EW-4_UVEFF	06/03/2014	0.25 U	0.28 U	**0.21 J**	**1.7**	0.25 U	0.25 U
EW-4_UVINF	05/05/2014	0.26 U	0.29 U	**0.37 J**	**3.3**	0.26 U	0.26 U
EW-7_UVEFF	04/02/2014	0.26 U	0.29 U	0.26 U	**0.45**	0.26 U	0.26 U
EW-7_UVEFF	05/05/2014	0.26 U	0.29 U	0.26 U	**0.52**	0.26 U	0.26 U
EW-7_UVEFF	06/03/2014	0.26 U	0.29 U	0.26 U	**0.49**	0.26 U	0.26 U
EW-7_UVINF	05/05/2014	0.26 U	0.29 U	0.26 U	**7.3**	0.26 U	0.26 U
EW-9_UVEFF	04/02/2014	0.26 U	0.29 U	0.26 U	**0.39**	0.26 U	0.26 U
EW-9_UVEFF	05/05/2014	0.27 U	0.30 U	0.27 U	**0.46**	0.27 U	0.27 U
EW-9_UVEFF	06/03/2014	0.26 U	0.29 U	0.26 U	**0.52**	0.26 U	0.26 U
EW-9_UVINF	05/05/2014	0.26 U	0.29 U	0.26 U	**21.5**	0.26 U	0.26 U
FEW-11_UVEFF	04/02/2014	0.27 U	0.30 U	**0.37 J**	**0.40 J**	**0.45**	0.27 U
FEW-11_UVEFF	05/05/2014	0.26 U	0.29 U	**0.37 J**	**0.48**	**0.48**	0.26 U
FEW-11_UVEFF	06/03/2014	0.25 U	0.27 U	**0.34 J**	**0.34 J**	**0.51**	0.25 U
FEW-11_UVINF	04/02/2014	0.26 U	0.29 U	**0.73**	**4.0**	**0.31 J**	0.26 U
FEW-11_UVINF	05/05/2014	0.26 U	0.29 U	**0.78**	**3.0**	**0.30 J**	0.26 U
FEW-11_UVINF	06/03/2014	0.28 U	0.32 U	**0.75**	**4.6**	**0.35 J**	0.28 U
FEW-14_UVEFF	04/02/2014	0.26 U	0.29 U	**0.17 J**	**0.21 J**	0.26 U	0.26 U
FEW-14_UVEFF	05/05/2014	0.26 U	0.29 U	**0.16 J**	**0.26 J**	0.26 U	0.26 U
FEW-14_UVEFF	06/03/2014	0.25 U	0.28 U	**0.18 J**	**0.28 J**	**0.13 J**	0.25 U
FEW-14_UVINF	05/05/2014	0.26 U	0.29 U	**0.57**	**4.2**	0.26 U	0.26 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 4.1 Operation and Maintenance

Results for Second Quarter O&M Sampling Events

Operations and Maintenance Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

	Sampling Date	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
FEW-15	05/05/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
GTP-310	04/02/2014	0.28 U	0.32 U	0.28 U	**0.19 J**	0.28 U	0.28 U
GTP-330	04/02/2014	0.26 U	0.29 U	0.26 U	**0.25 J**	0.26 U	0.26 U
GTP-350	04/02/2014	0.27 U	0.30 U	0.27 U	**0.23 J**	0.27 U	0.27 U
GTP-EFF	04/02/2014	0.26 U	0.29 U	0.26 U	**0.21 J**	0.26 U	0.26 U
GTP-INF	04/02/2014	0.25 U	0.28 U	0.25 U	**0.34 J**	**0.20 J**	0.25 U
LL1-EFF	05/05/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
LL1-INF	05/05/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
LL4-EFF	05/05/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
LL4-INF	05/05/2014	0.26 U	0.29 U	0.26 U	0.26 U	0.26 U	0.26 U
WAHOOCREEK	06/03/2014	0.25 U	0.28 U	0.25 U	**0.16 J**	**0.14 J**	0.25 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

Table 4.1 Operation and Maintenance

Results for Second Quarter O&M Sampling Events

Operations and Maintenance Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	1,2-DCP	CIS-1,2-DCE	Methylene Chloride	TCE	TRANS-1,2-DCE	Vinyl Chloride
AOP-EFF	04/02/2014	-	-	-	0.30 U	-	0.30 U
AOP-EFF	05/05/2014	0.60 U	0.60 U	2.0 U	**7.6**	0.60 U	0.60 U
AOP-EFF	05/27/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
AOP-EFF	06/03/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
EW-12	04/02/2014	0.60 U	0.60 U	2.0 U	**39.2**	0.60 U	0.60 U
EW-12	05/05/2014	0.60 U	0.60 U	2.0 U	**37.1**	0.60 U	0.60 U
EW-12	06/03/2014	0.60 UJ	0.60 UJ	2.0 U	**34.9 J**	0.60 UJ	0.60 UJ
EW-17	04/02/2014	0.60 U	0.60 U	2.0 U	**205**	0.60 U	0.60 U
EW-17	05/05/2014	0.60 U	0.60 U	2.0 U	**204**	0.60 U	0.60 U
EW-17	06/03/2014	0.60 UJ	0.60 UJ	2.0 U	**227 J**	0.60 UJ	0.60 UJ
EW-1R	05/05/2014	0.60 U	0.60 U	2.0 U	**3.9**	0.60 U	0.60 U
EW-4_UVINF	05/05/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
EW-7_UVINF	05/05/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
EW-9_UVINF	05/05/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
FEW-11_UVINF	04/02/2014	15.0 U	15.0 U	50.0 U	**1830**	15.0 U	15.0 U
FEW-11_UVINF	05/05/2014	0.60 U	**4.6**	2.0 U	**1900**	0.60 U	0.60 U
FEW-11_UVINF	06/03/2014	0.60 U	**5.2**	2.0 U	**1740**	0.60 U	0.60 U
FEW-14_UVINF	05/05/2014	0.60 U	0.60 U	2.0 U	**1.1**	0.60 U	0.60 U
FEW-15	05/05/2014	0.60 U	**1.6**	2.0 U	**341**	0.60 U	0.60 U
GCW1-EFF	05/05/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
GCW1-INF	05/05/2014	0.60 U	**2.5**	2.0 U	**425**	0.60 U	0.60 U
GTP-310	04/02/2014	0.60 U	0.60 U	2.0 U	**0.36 J**	0.60 U	0.60 U
GTP-330	04/02/2014	0.60 U	0.60 U	2.0 U	**0.50 J**	0.60 U	0.60 U
GTP-350	04/02/2014	0.60 U	0.60 U	2.0 U	**0.41 J**	0.60 U	0.60 U
GTP-EFF	04/02/2014	-	-	-	**0.42 J**	-	0.30 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).
\- - Sample not analyzed for this contaminant.

Table 4.1 Operation and Maintenance

Results for Second Quarter O&M Sampling Events

Operations and Maintenance Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds							
	Sampling Date	1,2-DCP	CIS-1,2-DCE	Methylene Chloride	TCE	TRANS-1,2-DCE	Vinyl Chloride
GTP-INF	04/02/2014	0.60 U	0.60 U	2.0 U	**0.67 J**	0.60 U	0.60 U
LL1_AIR_EF (Air)	05/05/2014	0.50 U	**0.44 J**	**34.0**	**160**	0.50 U	0.50 U
LL1-EFF	04/02/2014	-	-	-	0.30 U	-	0.30 U
LL1-EFF	05/05/2014	0.60 U	0.60 U	2.0 U	0.60 U	0.60 U	0.60 U
LL1-EFF	06/03/2014	0.60 U	0.60 U	2.0 U	**0.30 J**	0.60 U	0.60 U
LL1-INF	04/02/2014	0.60 U	0.60 U	2.0 U	**129**	0.60 U	0.60 U
LL1-INF	05/05/2014	0.60 U	0.60 U	2.0 U	**159**	0.60 U	0.60 U
LL1-INF	06/03/2014	0.60 UJ	0.60 UJ	2.0 U	**151 J**	0.60 UJ	0.60 UJ
LL4_AIR_EF (Air)	05/05/2014	2.0 U	**2.8 J**	16.0 U	**260**	2.0 U	2.0 U
LL4-EFF	04/02/2014	-	-	-	**0.47 J**	-	0.30 U
LL4-EFF	05/05/2014	0.60 U	0.60 U	2.0 U	**1.9**	0.60 U	0.60 U
LL4-EFF	06/03/2014	0.60 U	0.60 U	2.0 U	**1.7**	0.60 U	0.60 U
LL4-INF	04/02/2014	0.60 U	**1.8**	2.0 U	**332**	0.60 U	0.60 U
LL4-INF	05/05/2014	0.60 U	**1.2**	2.0 U	**243**	0.60 U	0.60 U
LL4-INF	06/03/2014	0.60 U	**1.3**	2.0 U	**234**	0.60 U	0.60 U
WAHOOCREEK	05/27/2014	0.60 U	0.60 U	2.0 U	**0.68 J**	0.60 U	0.60 U
WAHOOCREEK	06/03/2014	0.60 U	0.60 U	2.0 U	**0.41 J**	0.60 U	0.60 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).
\- - Sample not analyzed for this contaminant.

Table 4.1 Operation and Maintenance

Results for Second Quarter O&M Sampling Events

Operations and Maintenance Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Wet Chemistry

	Sampling Date	Total Organic Carbon	TSS
EW-4_UVINF	05/05/2014	**1.1**	0.54 U
EW-7_UVINF	05/05/2014	**1.1**	**4.3**
EW-9_UVINF	05/05/2014	**1.0**	**0.67 J**
FEW-11_UVEFF	05/05/2014	**1.5**	**1.2 J**
FEW-14_UVINF	05/05/2014	**1.2**	**4.7**
LL1-INF	05/05/2014	**1.5**	**42.1**
LL4-INF	05/05/2014	**1.1**	0.54 U

Detects are displayed in bold font

Indicates that result exceeds Final Target Groundwater Cleanup Goals

All results in µg/L - micrograms per liter
J - The contaminant was detected, but there is some question that the stated concentration is exact.
U - Contaminant was not detected above the associated detection limit.
UJ - Contaminant was not detected, but the associated detection limit is not certain (estimated).

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FIGURE(S)

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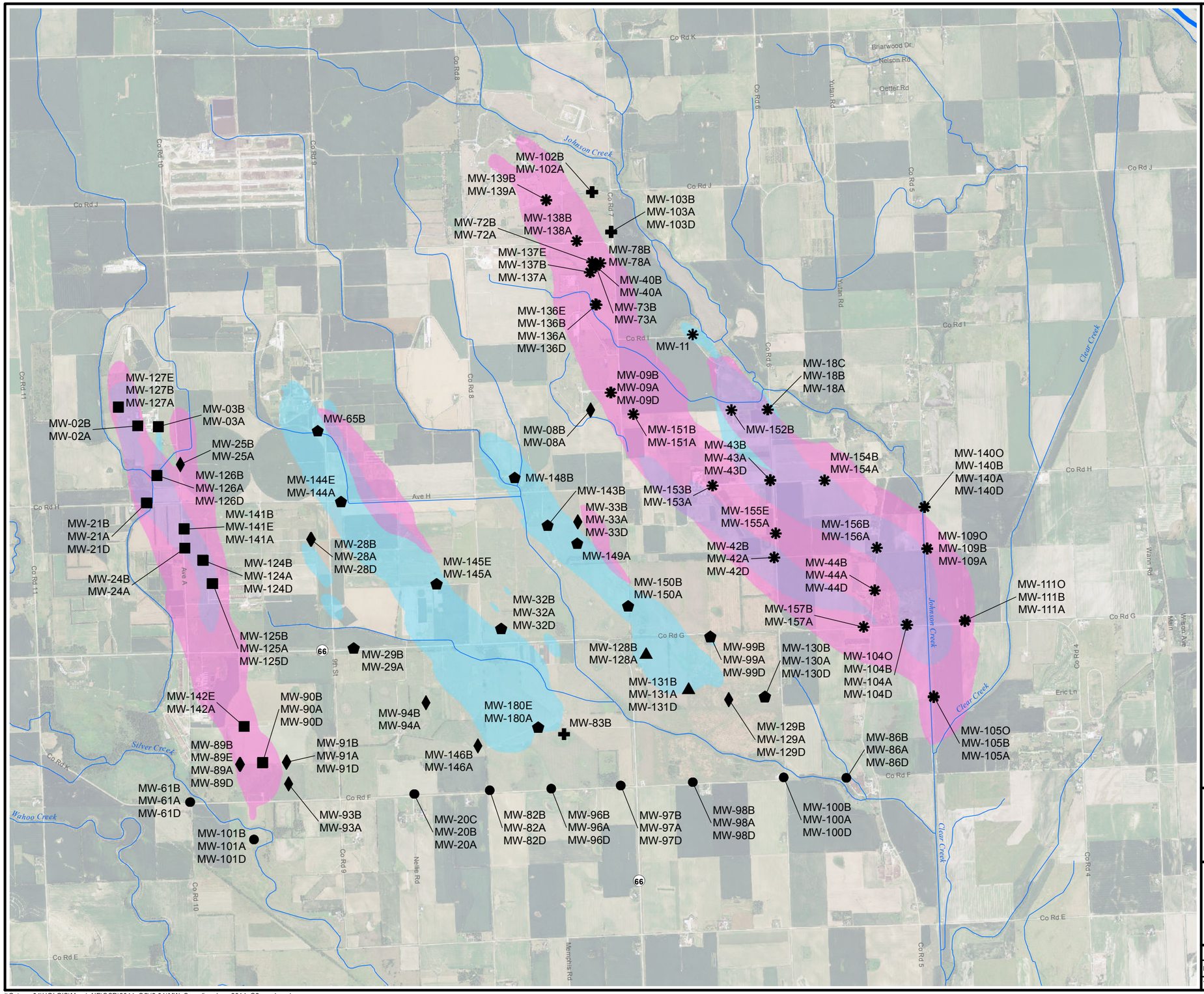

Legend

- Compliance Monitoring Well
- Load Line 1 Interior Plume Monitoring Well
- Load Line 2 and Load Line 3 Interior Plume Monitoring Well
- Load Line 4/Atlas Missile Area and Landfill Interior Plume Monitoring Well
- Focused Extraction Monitoring Well
- Perimeter Monitoring Well
- Sidegradient/Downgradient Monitoring Well

Contaminant Plume

- Approximate Area of TCE at a Concentration of 5 µg/L or Greater (2013)
- Approximate Area of RDX at a Concentration of 2 µg/L or Greater (2013)
- Approximate Area of Both TCE at a Concentration of 5 µg/L or Greater and RDX at a Concentration of 2 µg/L or Greater (2013)

NOTES:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE = trichloroethene
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
µg/L = micrograms per liter

N

0 1,750 3,500 7,000
Feet

US Army Corps of Engineers ®
Kansas City District

Former Nebraska Ordnance Plant
Mead, Nebraska
Quarterly Summary Report
Second Quarter 2014 Sampling Events

Figure 2.1
Monitoring Well
Second Quarter 2014 Sampling Locations

Drawn by: RR	Reviewed by: JG	Source: HGL, ECC, NAIP (2012) Projection: NAD 1983 Nebraska State Plane Units: Feet
Date: 07/23/2014	Date: 07/24/2014	
Version: 2	Revision Date / Initials: 07/25/2014	

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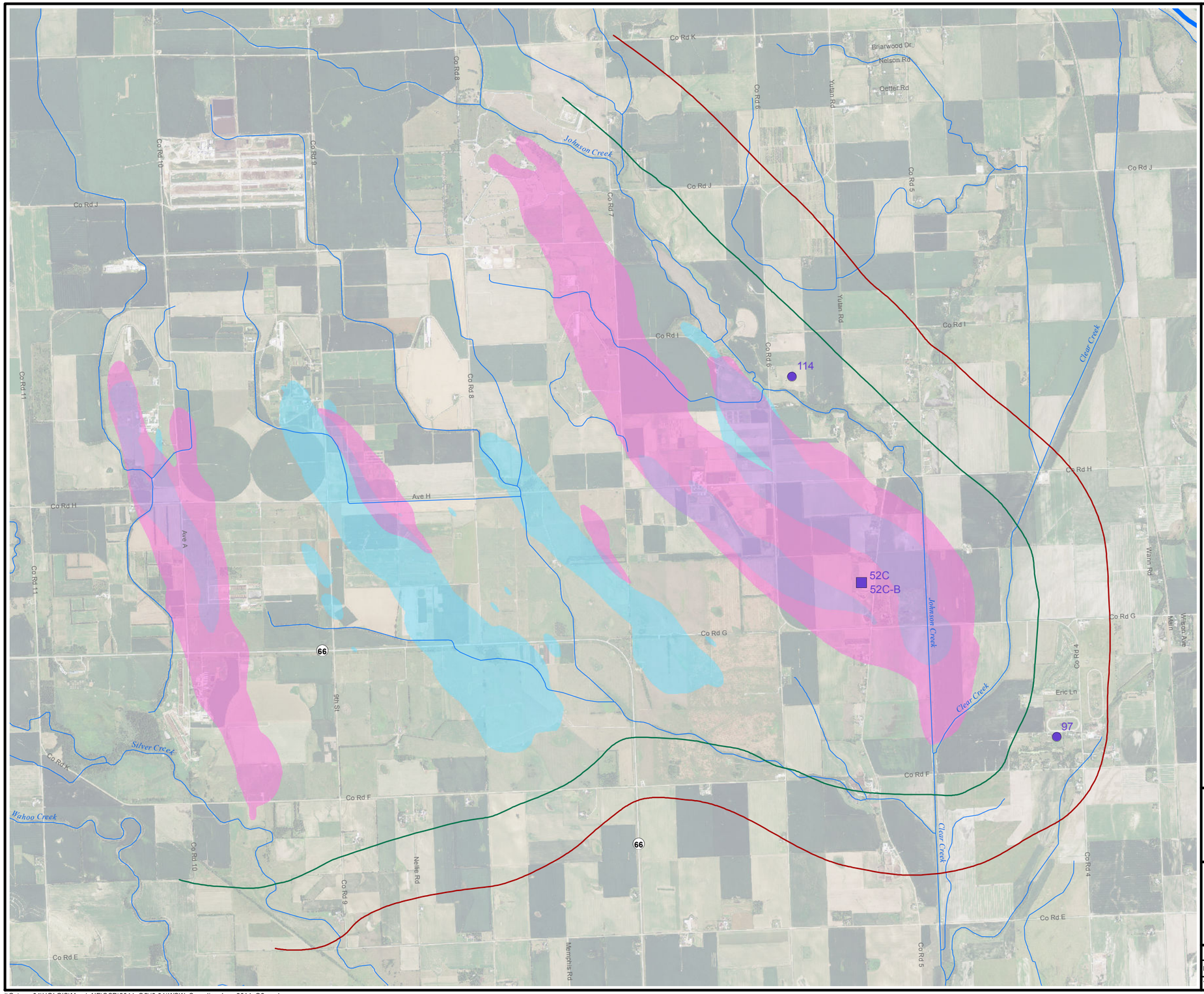

Legend

- Water Supply Well
- Alternate Water Supply Well
- Half-Mile Buffer Zone
- One-Mile Buffer Zone

Contaminant Plume

- Approximate Area of TCE at a Concentration of 5 µg/L or Greater (2013)
- Approximate Area of RDX at a Concentration of 2 µg/L or Greater (2013)
- Approximate Area of Both TCE at a Concentration of 5 µg/L or Greater and RDX at a Concentration of 2 µg/L or Greater (2013)

NOTES:

The letter "-B" notation after Well ID indicates that the sample was collected before the Granular Activated Carbon unit.

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE = trichloroethene
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
µg/L = micrograms per liter

N

0 1,750 3,500 7,000
Feet

US Army Corps of Engineers ®
Kansas City District

Former Nebraska Ordnance Plant
Mead, Nebraska
Quarterly Summary Report
Second Quarter 2014 Sampling Events

Figure 3.1
Water Supply Well
Second Quarter 2014 Sampling Locations

Drawn by: RR	Reviewed by: JG/TH	Source: HGL, ECC, NAIP (2012) Projection: NAD 1983 Nebraska State Plane Units: Feet
Date: 07/23/2014	Date: 07/28/2014	
Version: 2	Revision Date / Initials: 07/28/2014 RR	

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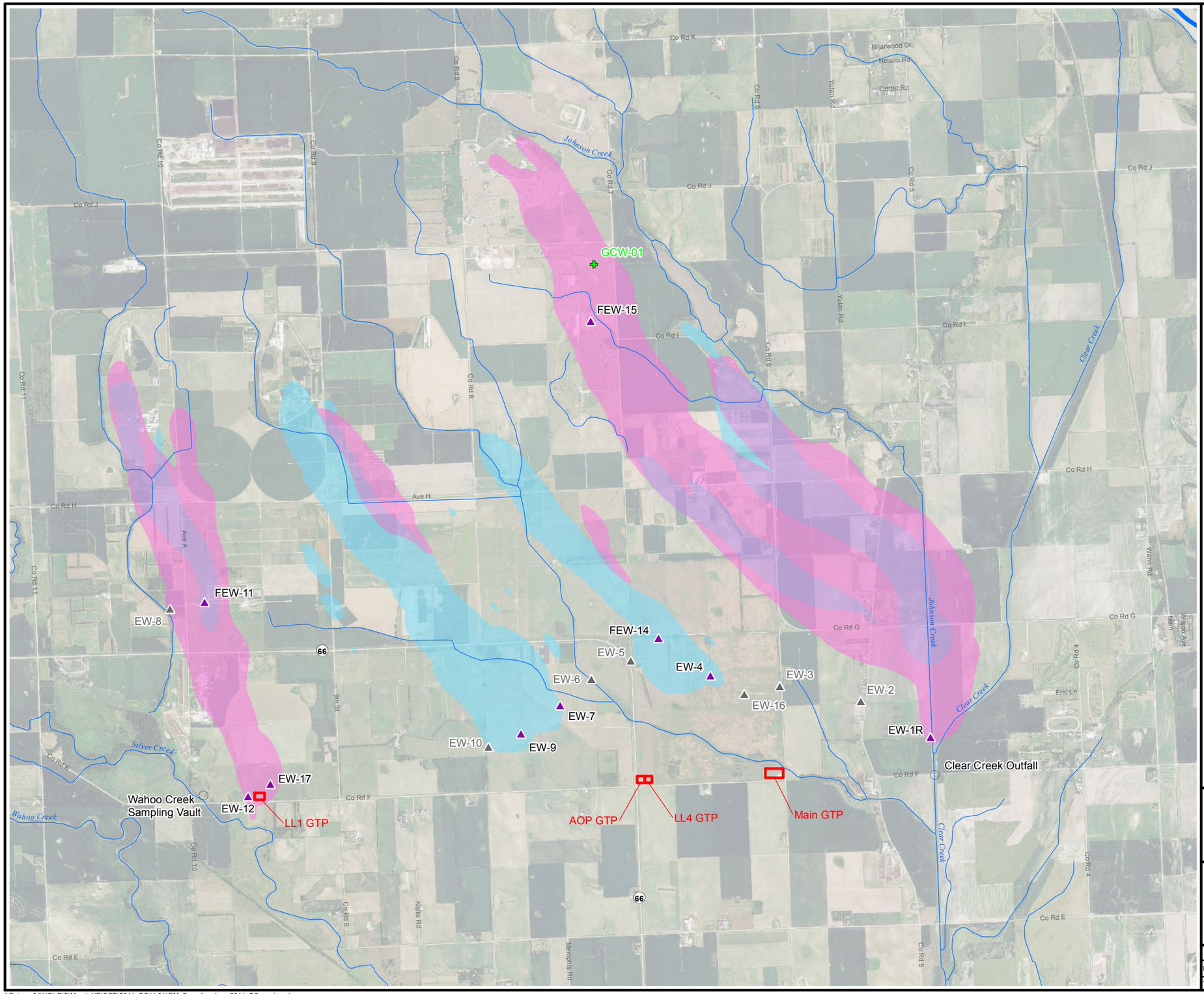

Legend

- Groundwater Circulation Well
- Groundwater Extraction Well
- Groundwater Extraction Well (Inactive)
- Sampling Vault / Outfall
- Groundwater Treatment Plant

Contaminant Plume

- Approximate Area of TCE at a Concentration of 5 µg/L or Greater (2013)
- Approximate Area of RDX at a Concentration of 2 µg/L or Greater (2013)
- Approximate Area of Both TCE at a Concentration of 5 µg/L or Greater and RDX at a Concentration of 2 µg/L or Greater (2013)

NOTES:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

AOP = advanced oxidation process
EW = extraction well
FEW = focused extraction well
GCW = groundwater circulation well
GTP = groundwater treatment plant
LL = Load Line
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
TCE = trichloroethene
µg/L = micrograms per liter

N

0 1,750 3,500 7,000

Feet

US Army Corps of Engineers ®
Kansas City District

Former Nebraska Ordnance Plant
Mead, Nebraska
Quarterly Summary Report
Second Quarter 2014 Sampling Events

Figure 4.1
Operation and Maintenance
Second Quarter 2014 Sampling Locations

Drawn by: RR	Reviewed by: AS, JG	Source: HGL, ECC, NAIP (2012) Projection: NAD 1983 Nebraska State Plane Units: Feet
Date: 07/24/2014	Date: 07/24/2014	
Version: 3	Revision Date / Initials: 07/25/2014 RR	

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APPENDIX A

CONCENTRATION TREND CHARTS FOR SELECT MONITORING WELLS

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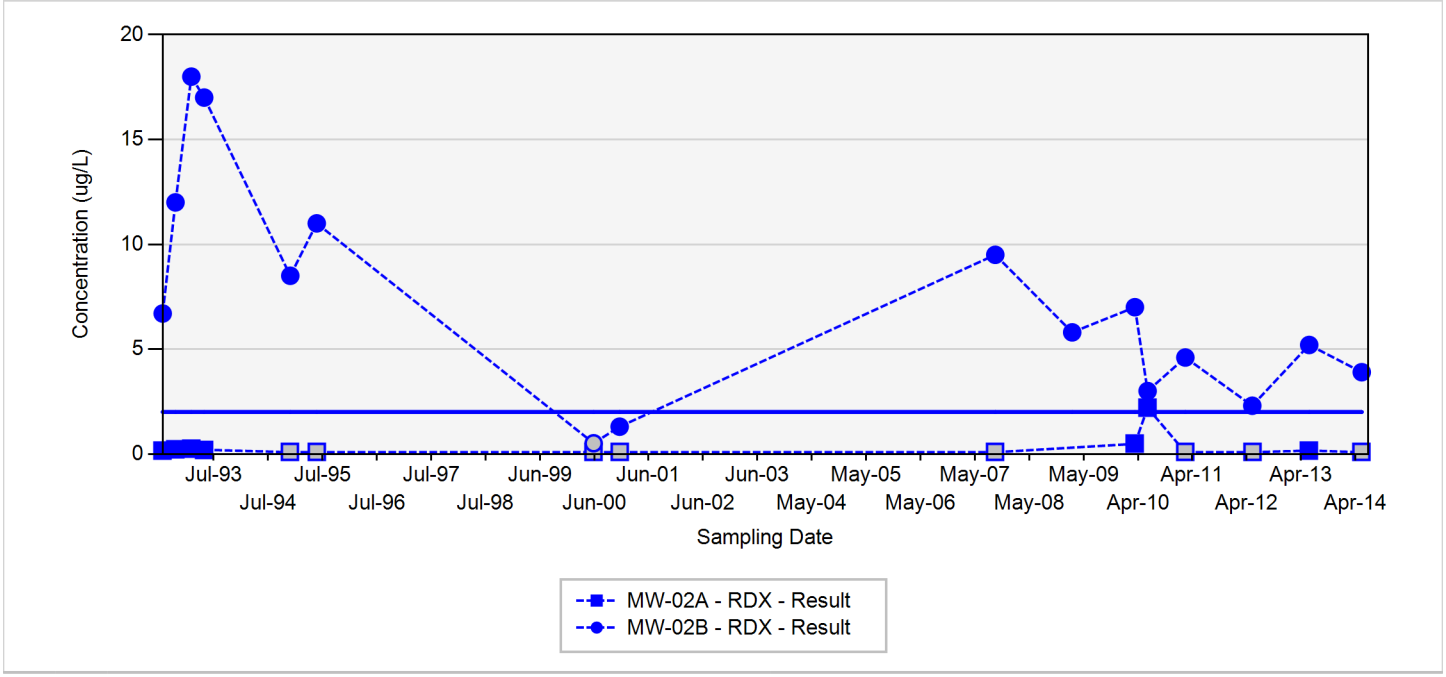
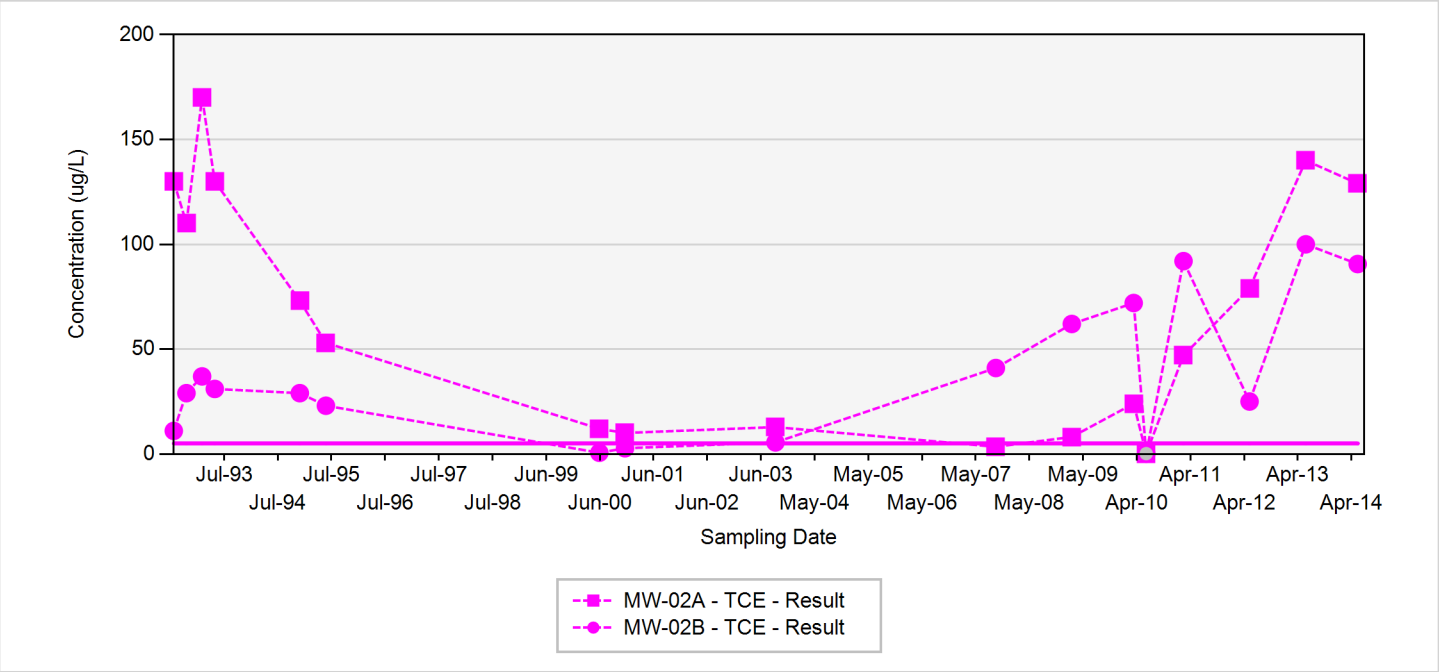
Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-02





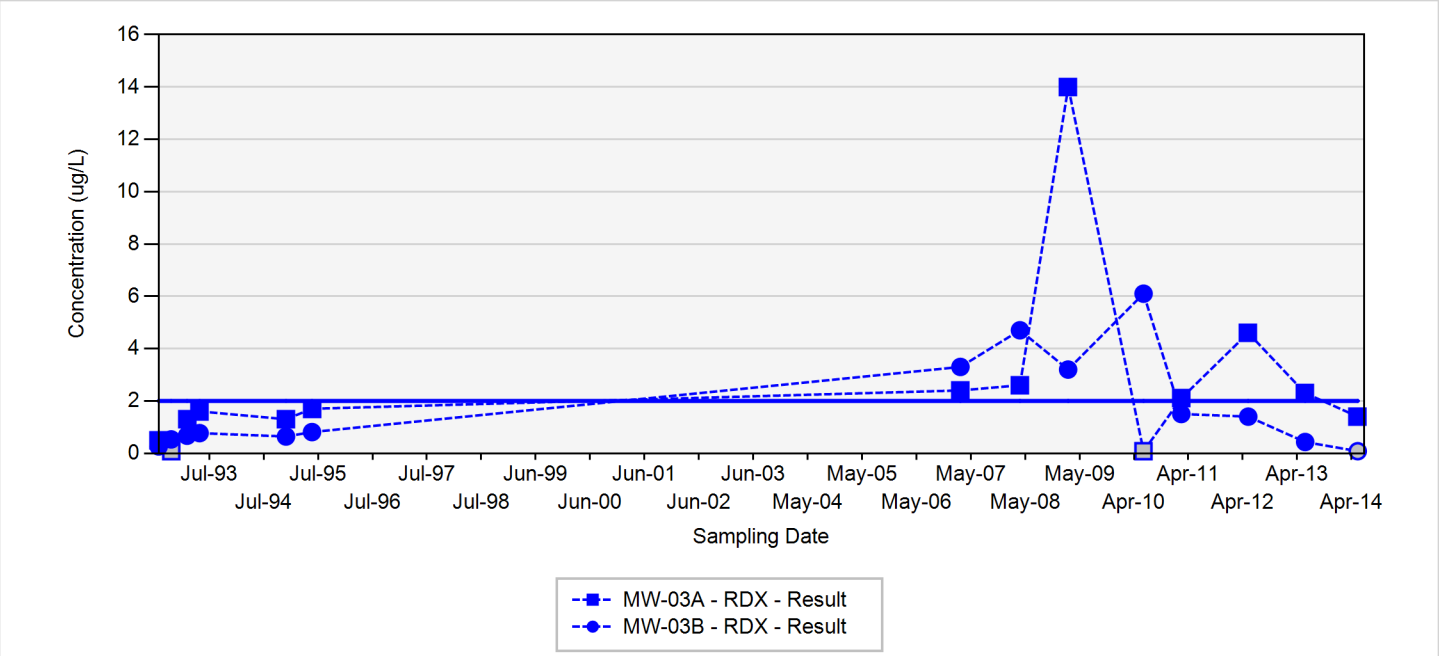
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

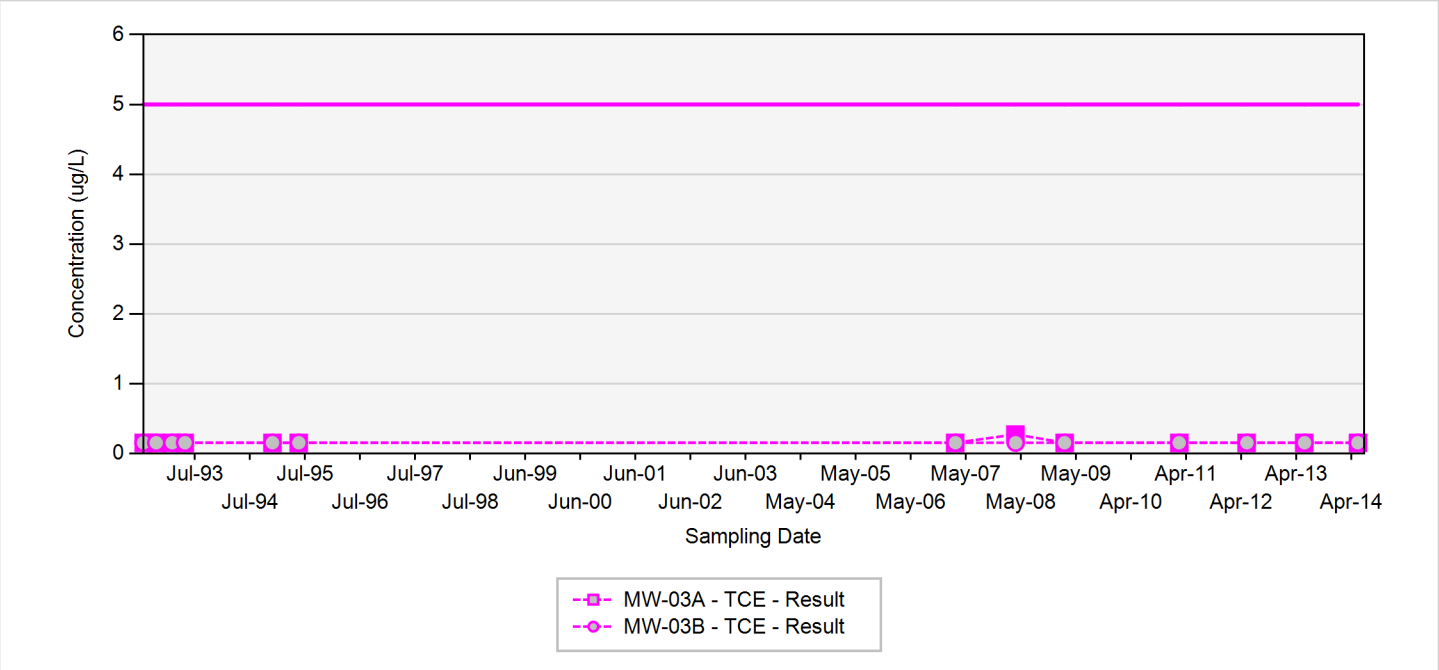
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-03





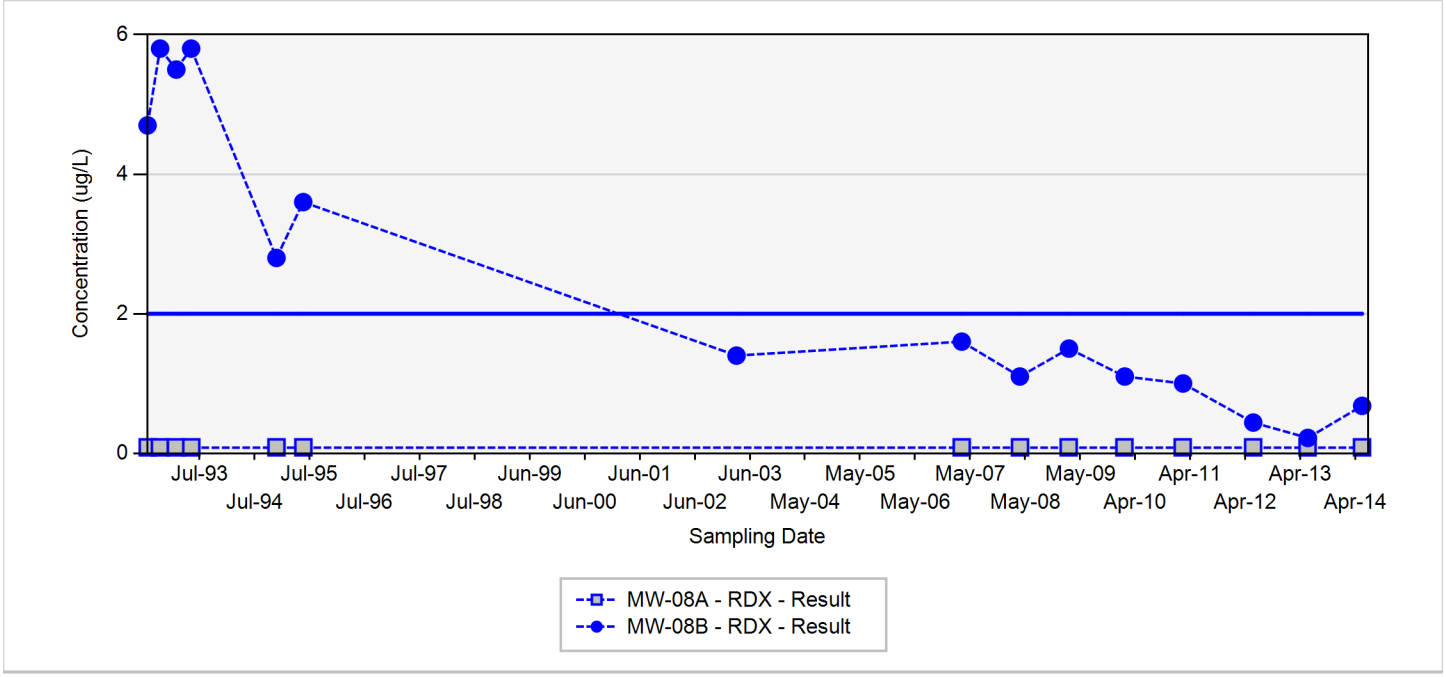
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

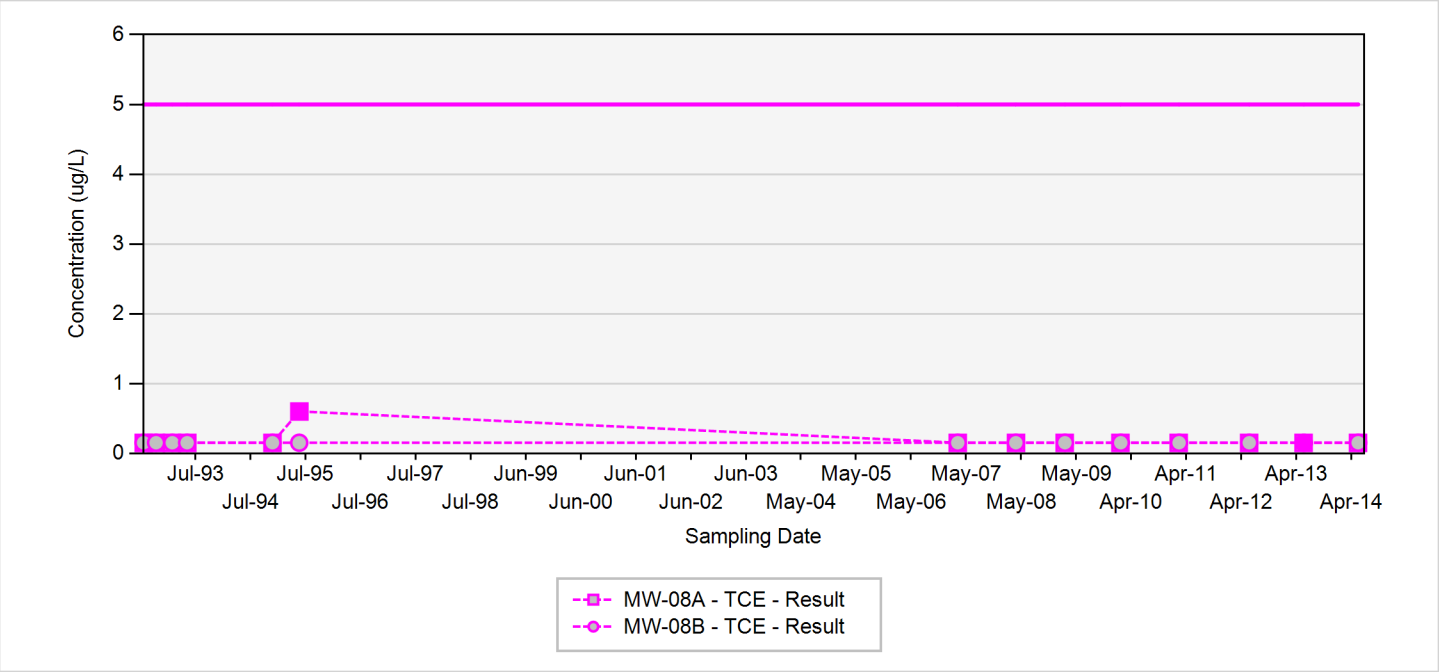
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-08





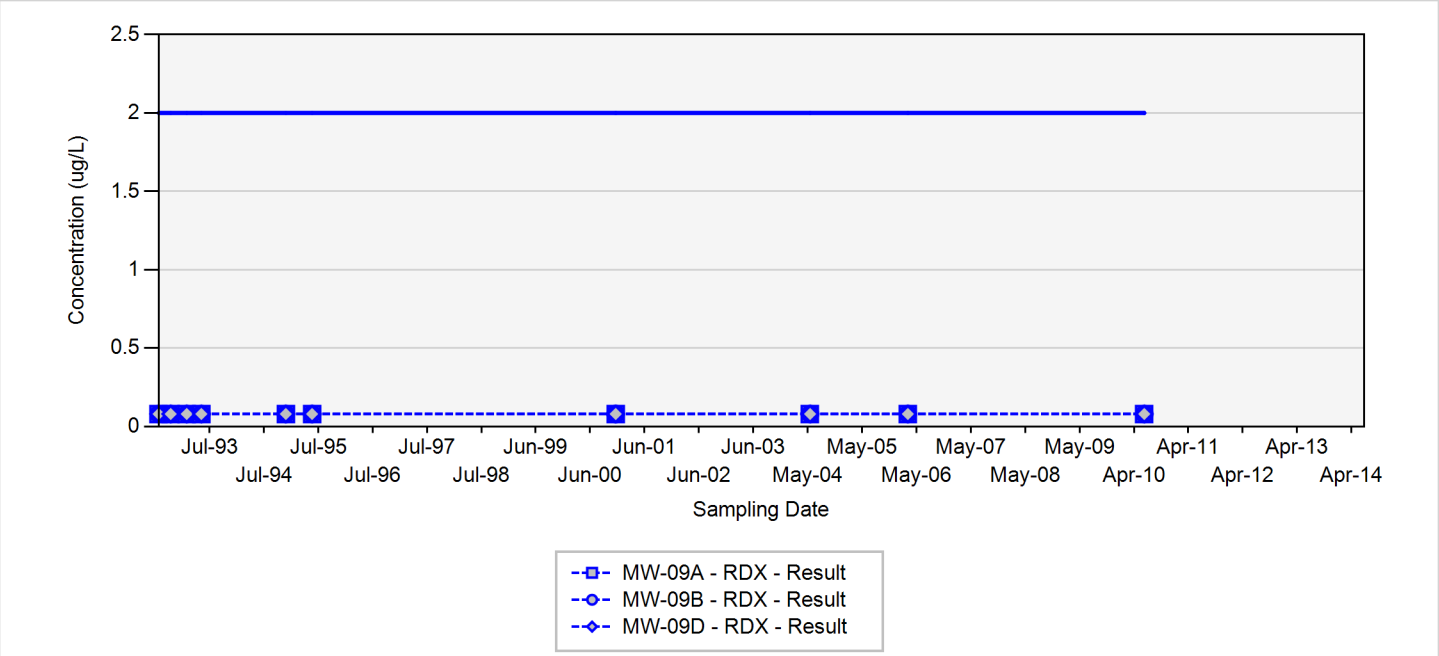
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

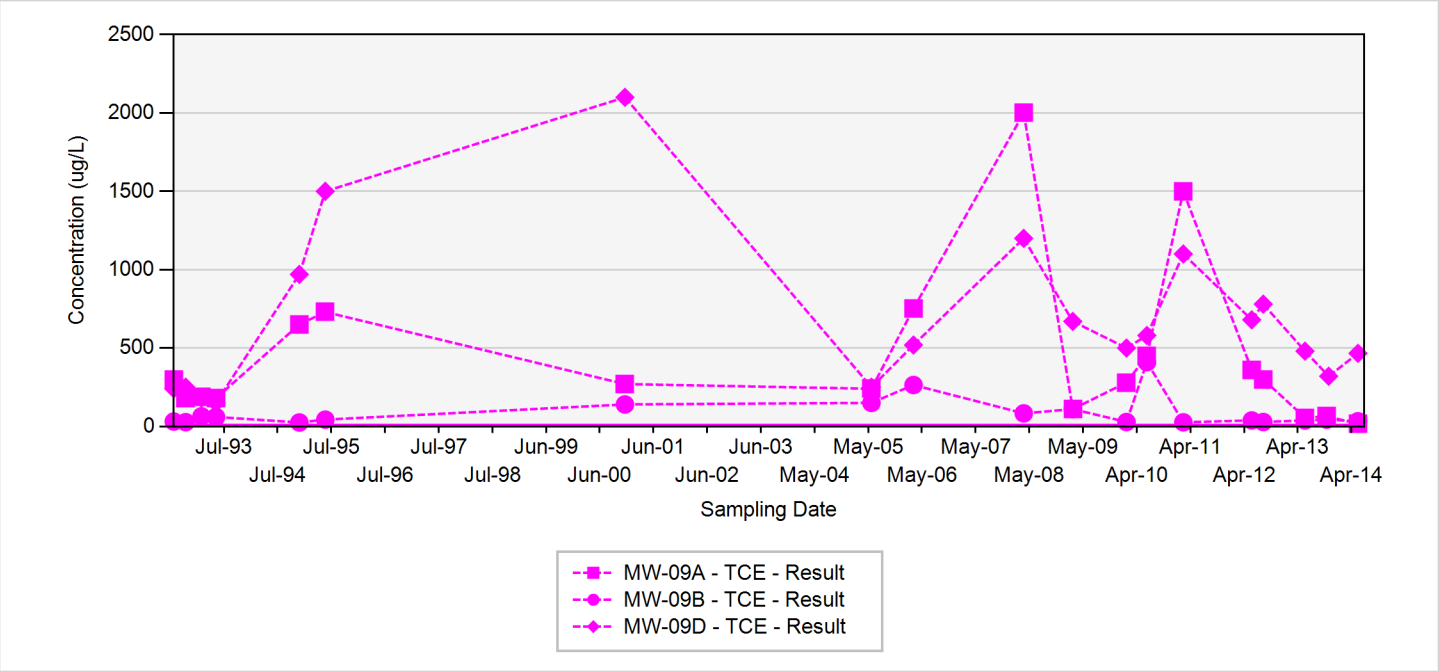
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-09





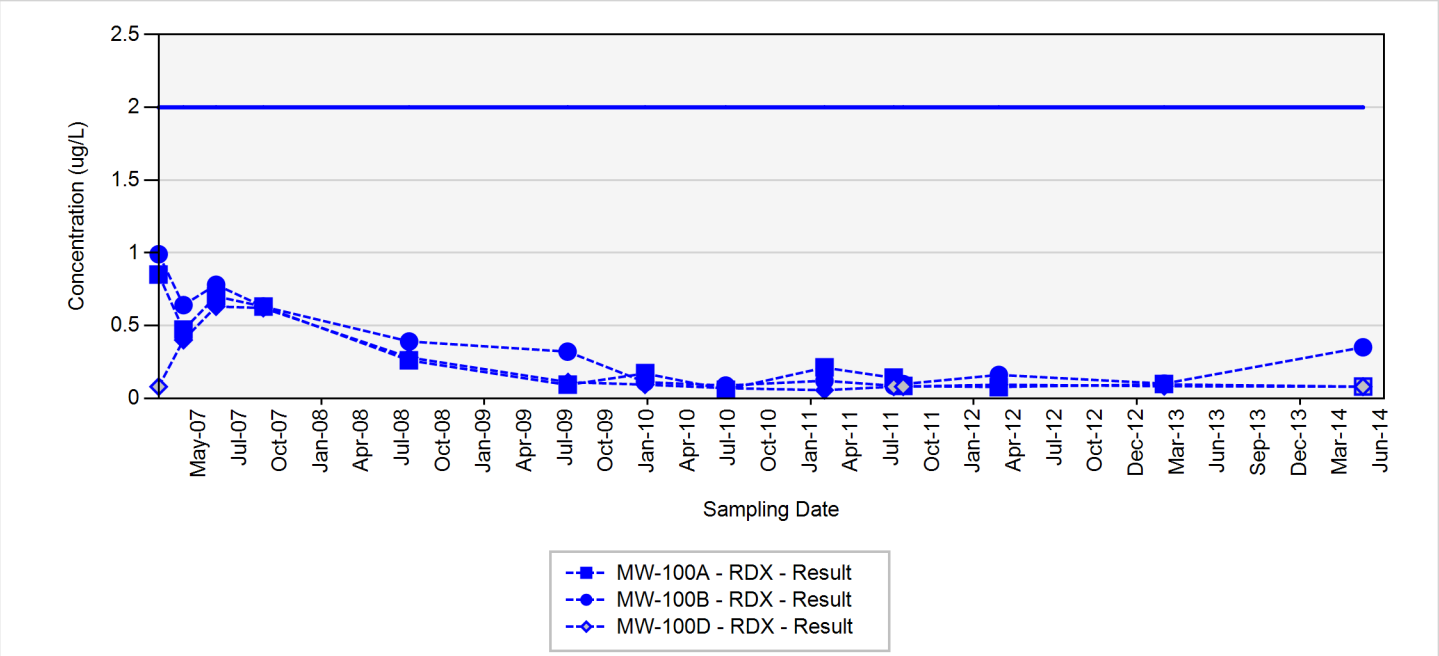
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

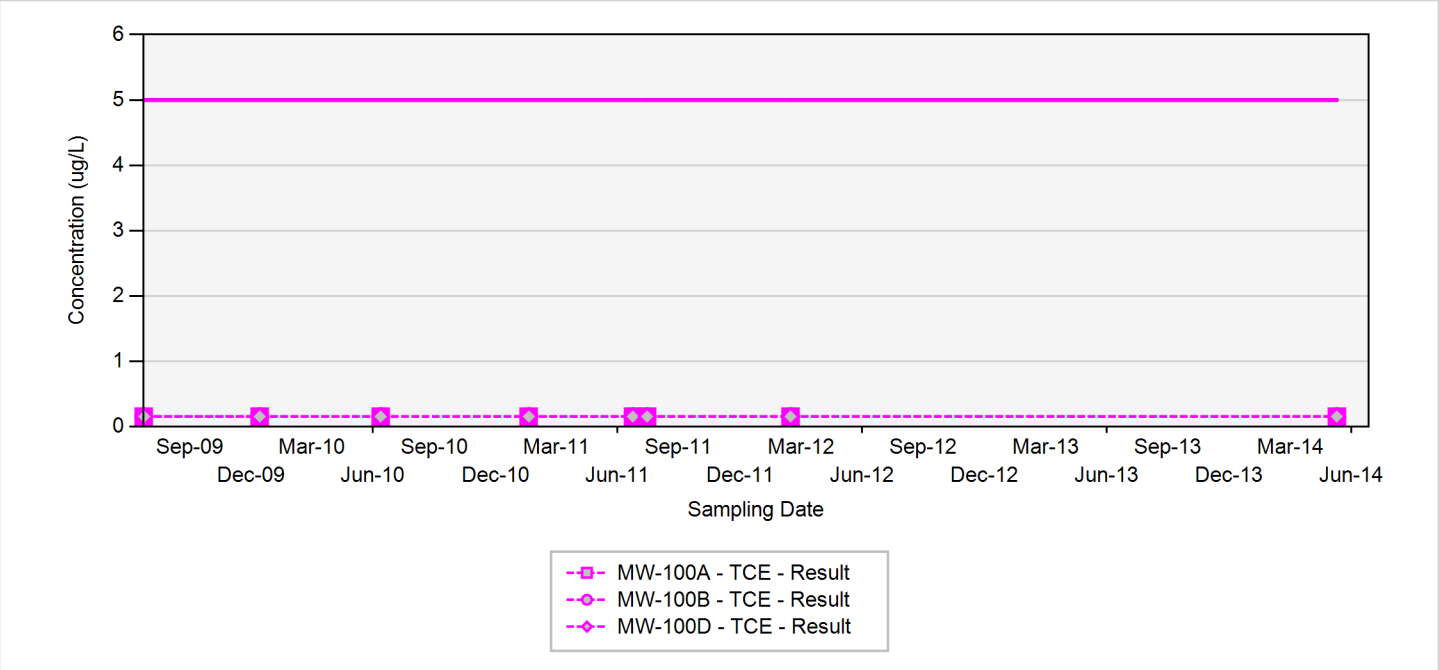
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-100





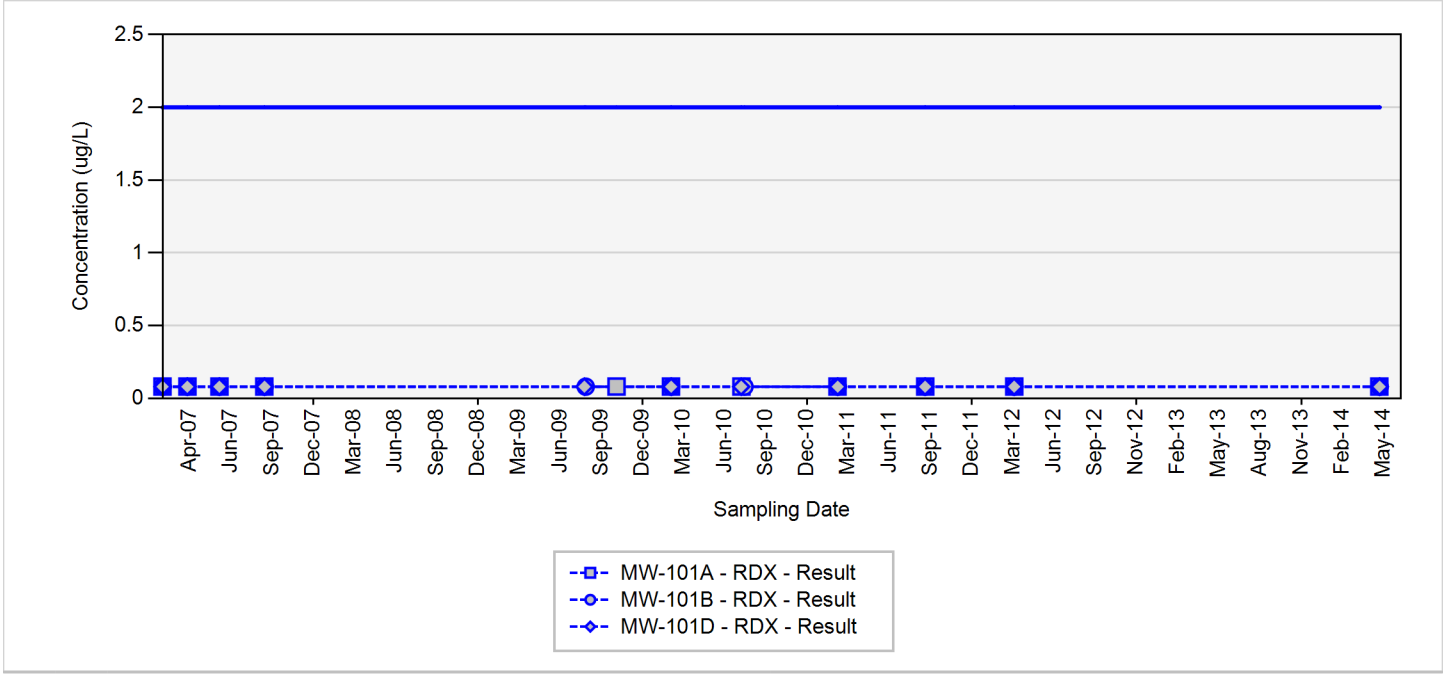
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

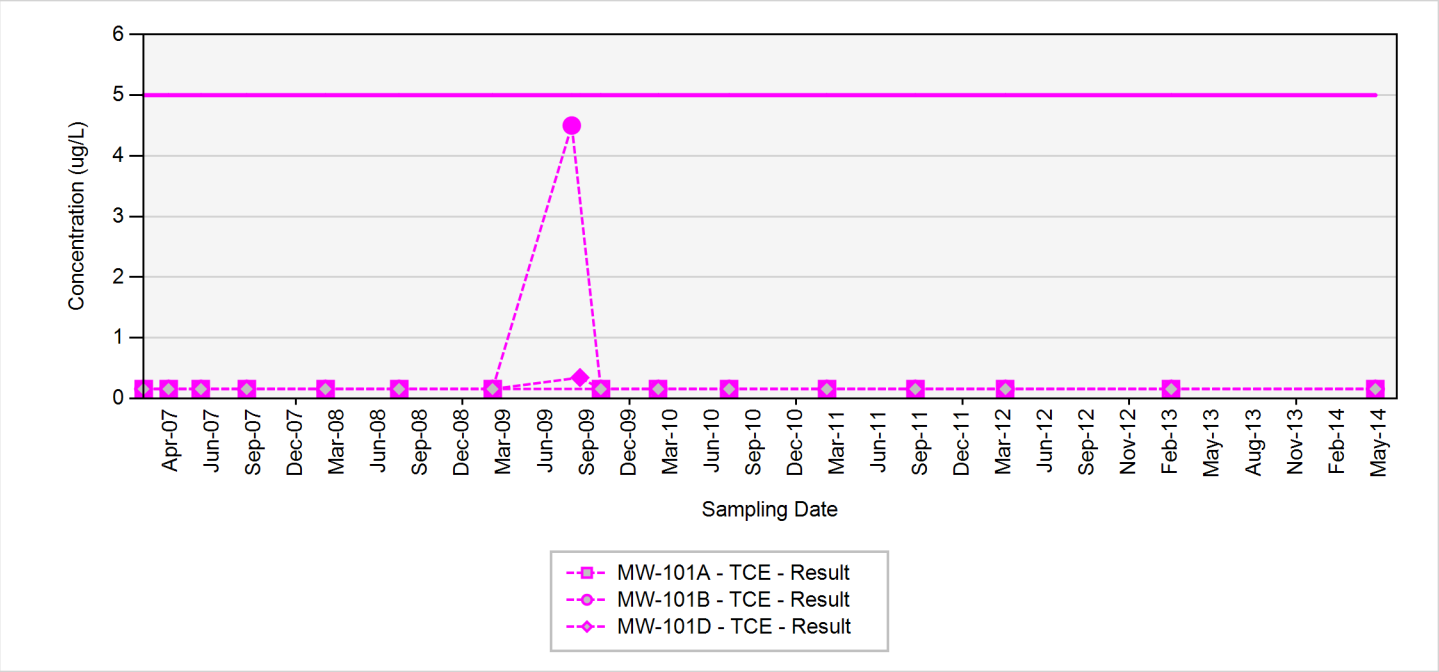
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-101





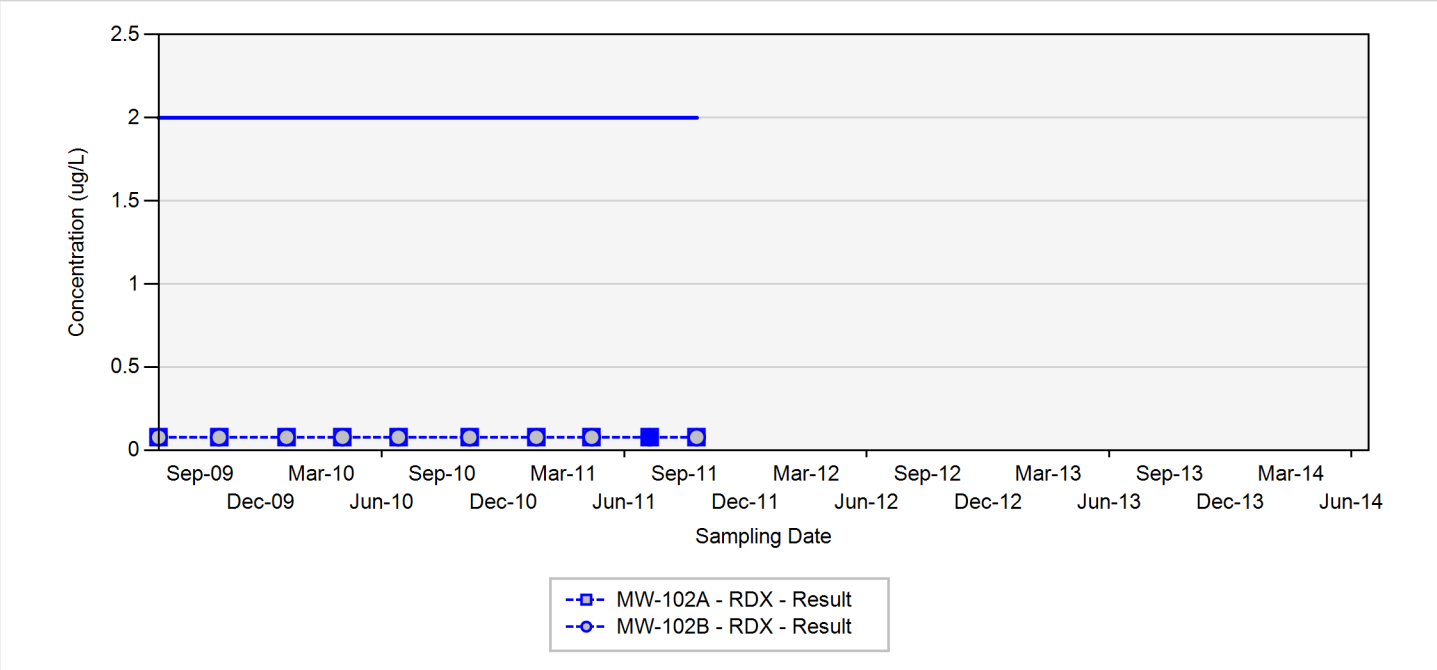
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

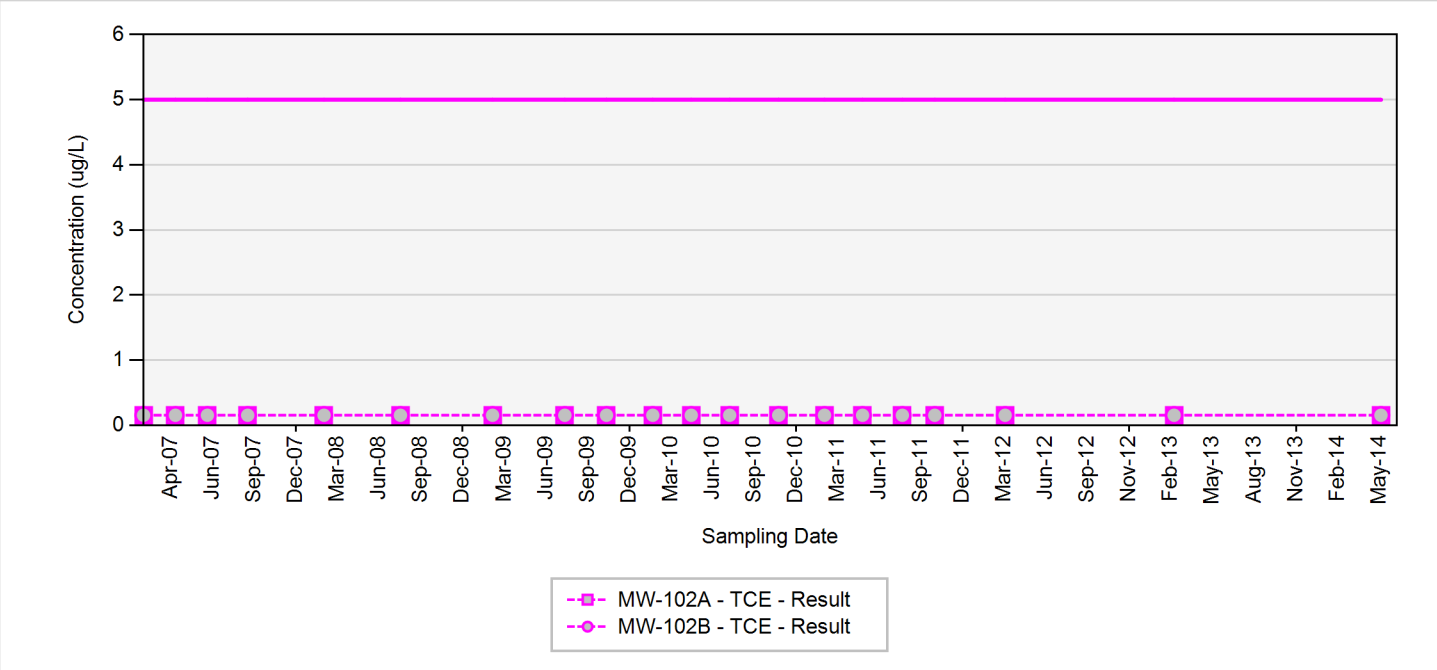
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-102





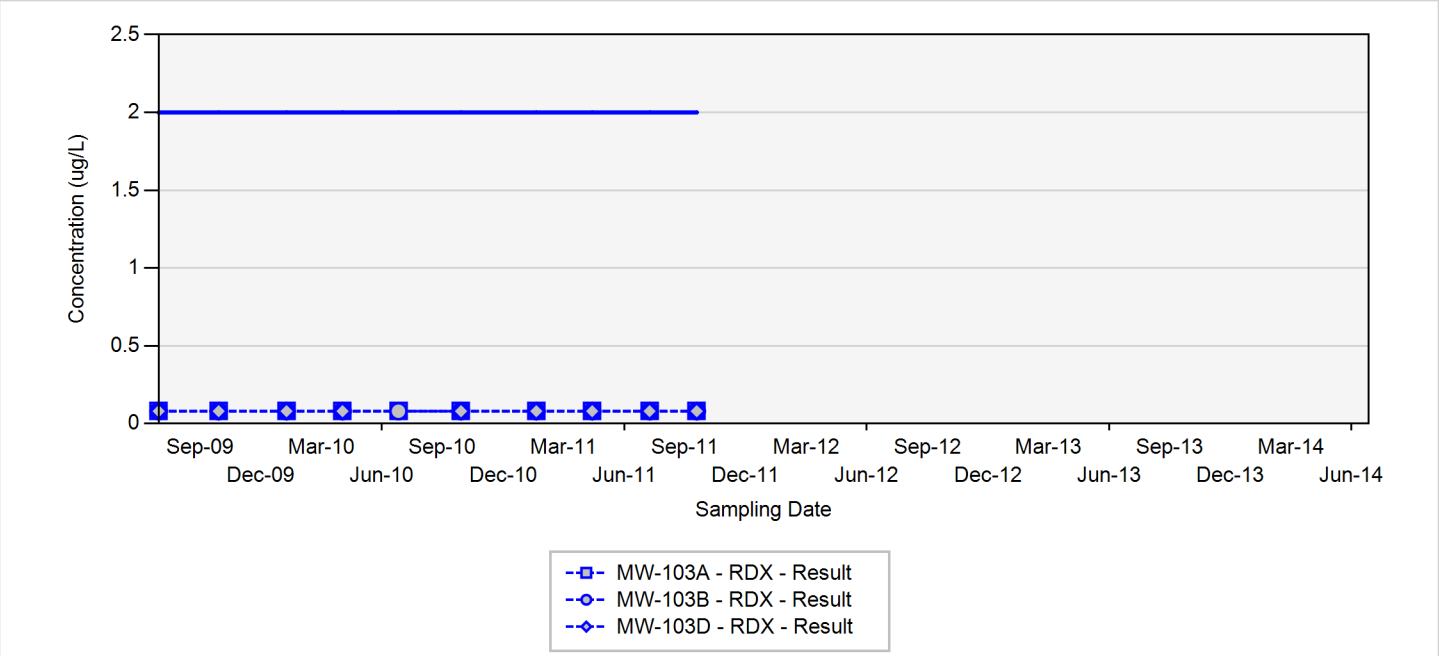
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

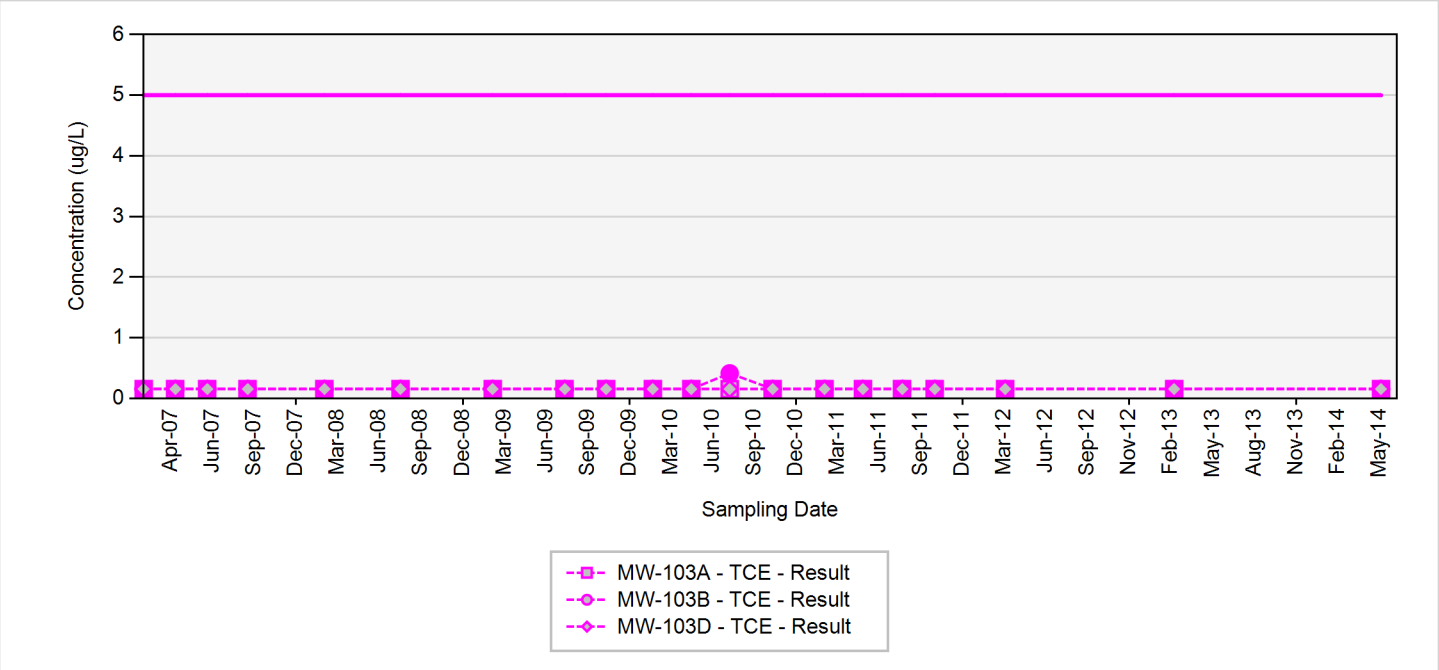
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-103





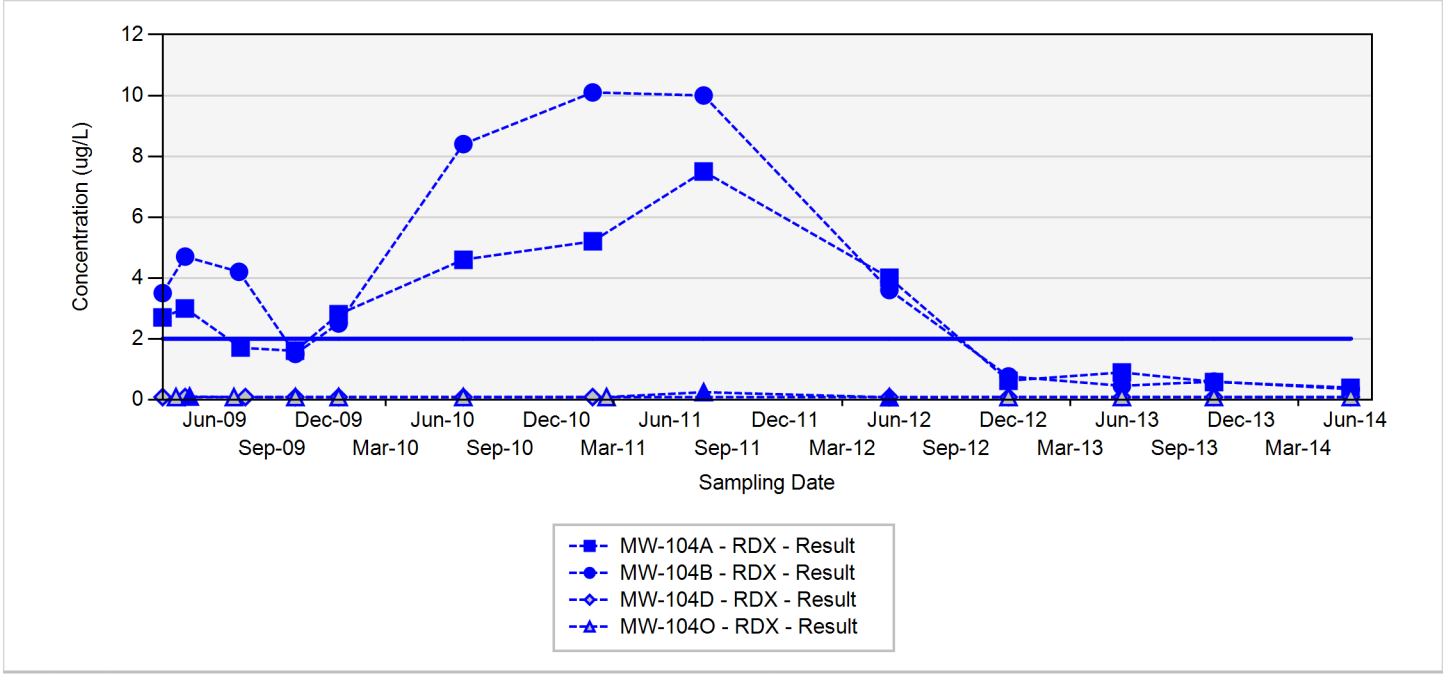
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

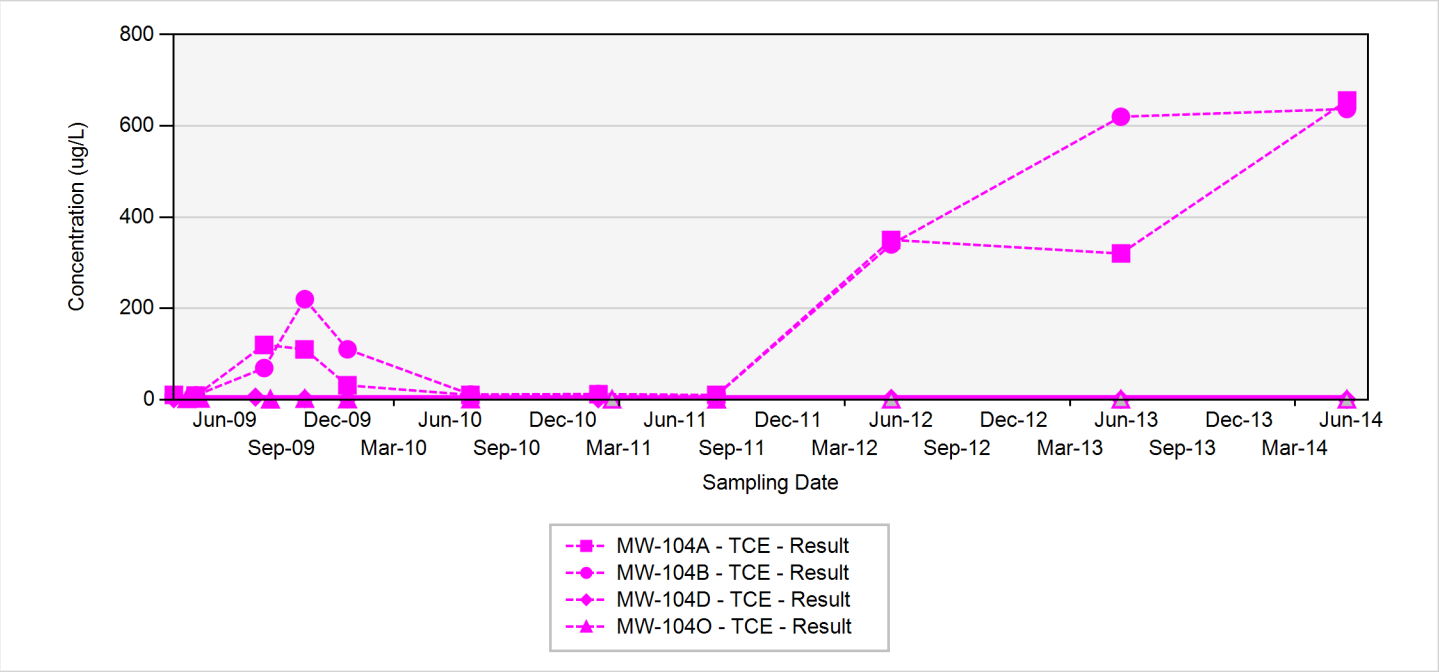
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-104





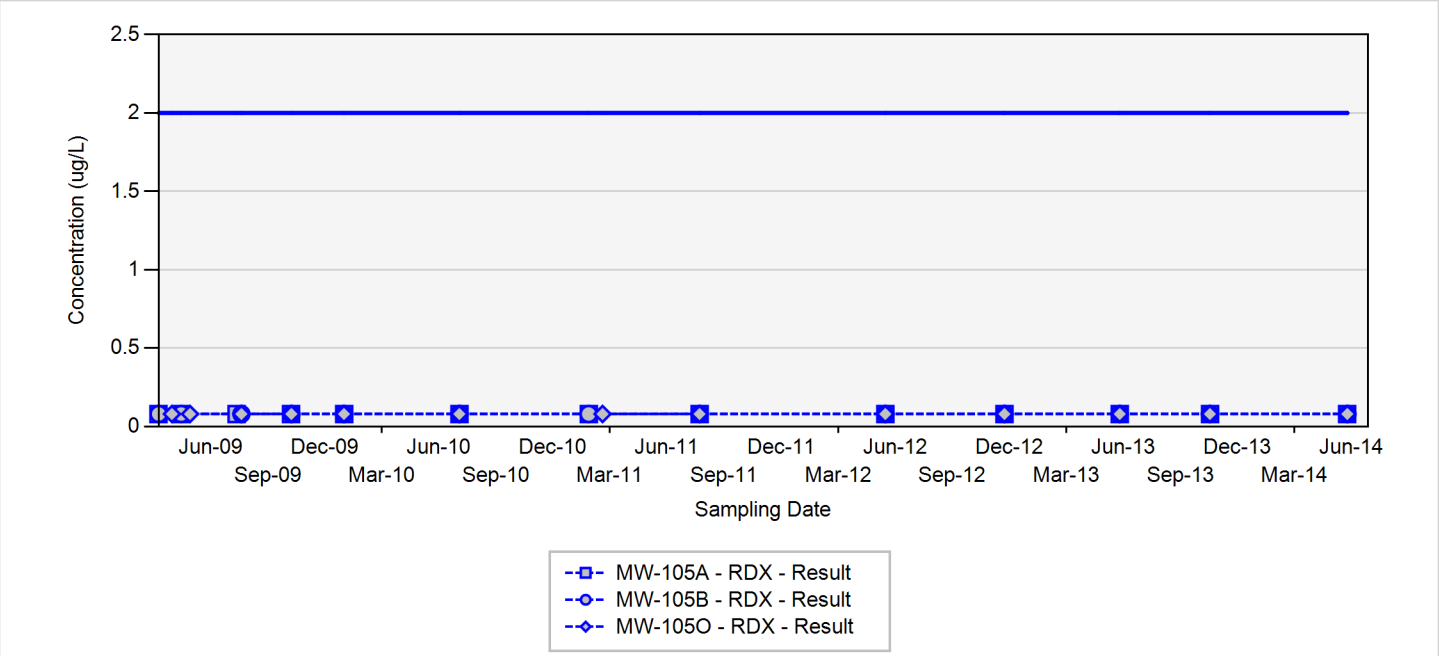
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

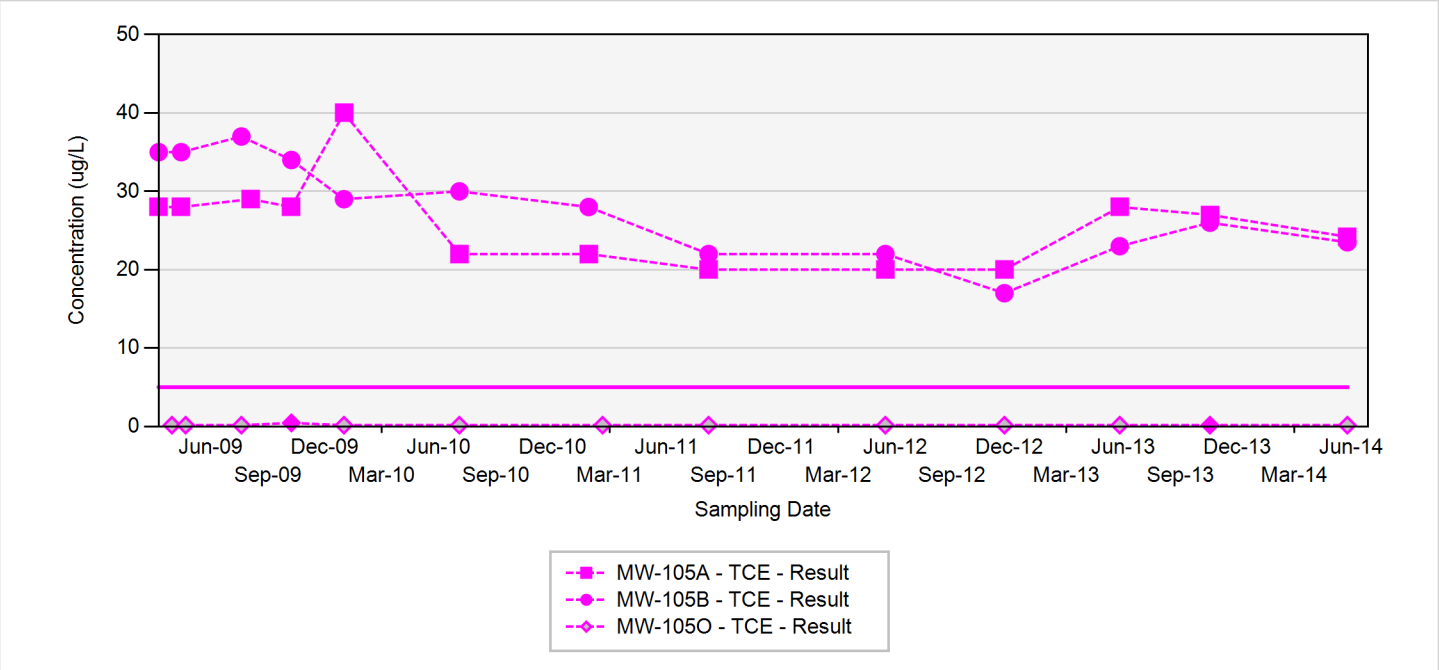
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-105





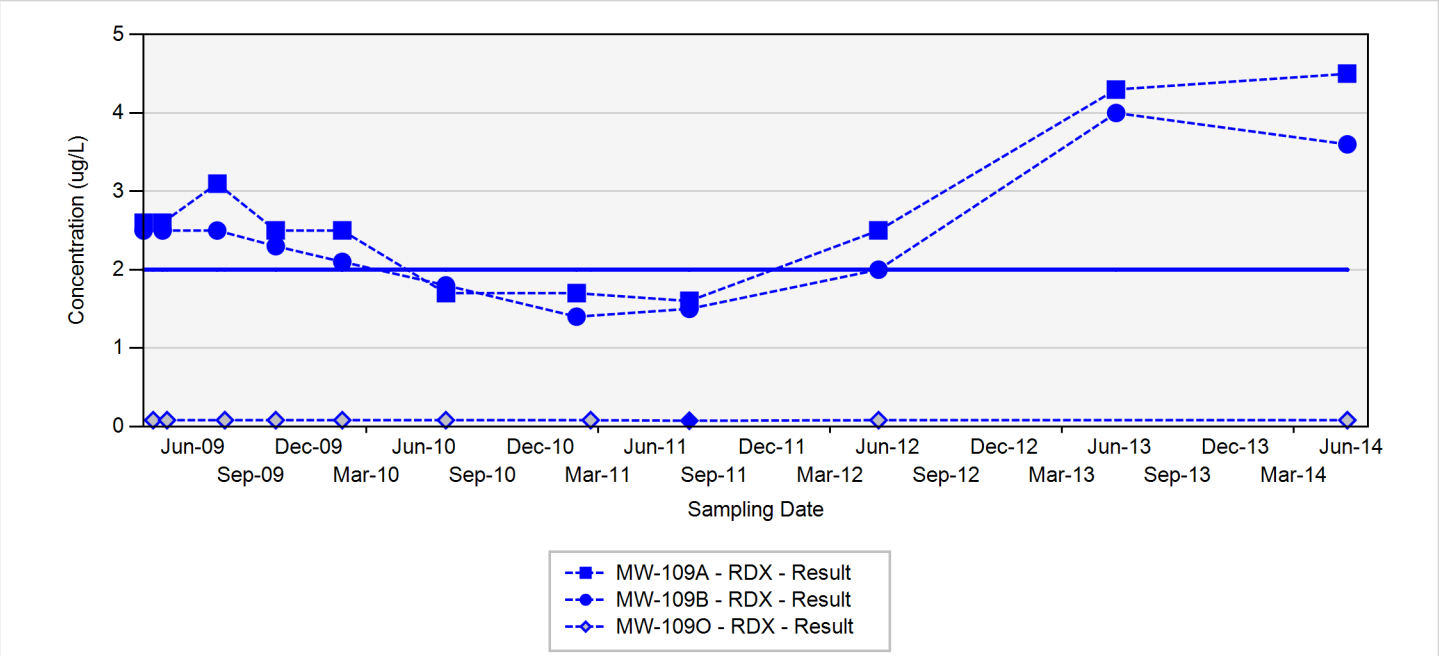
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

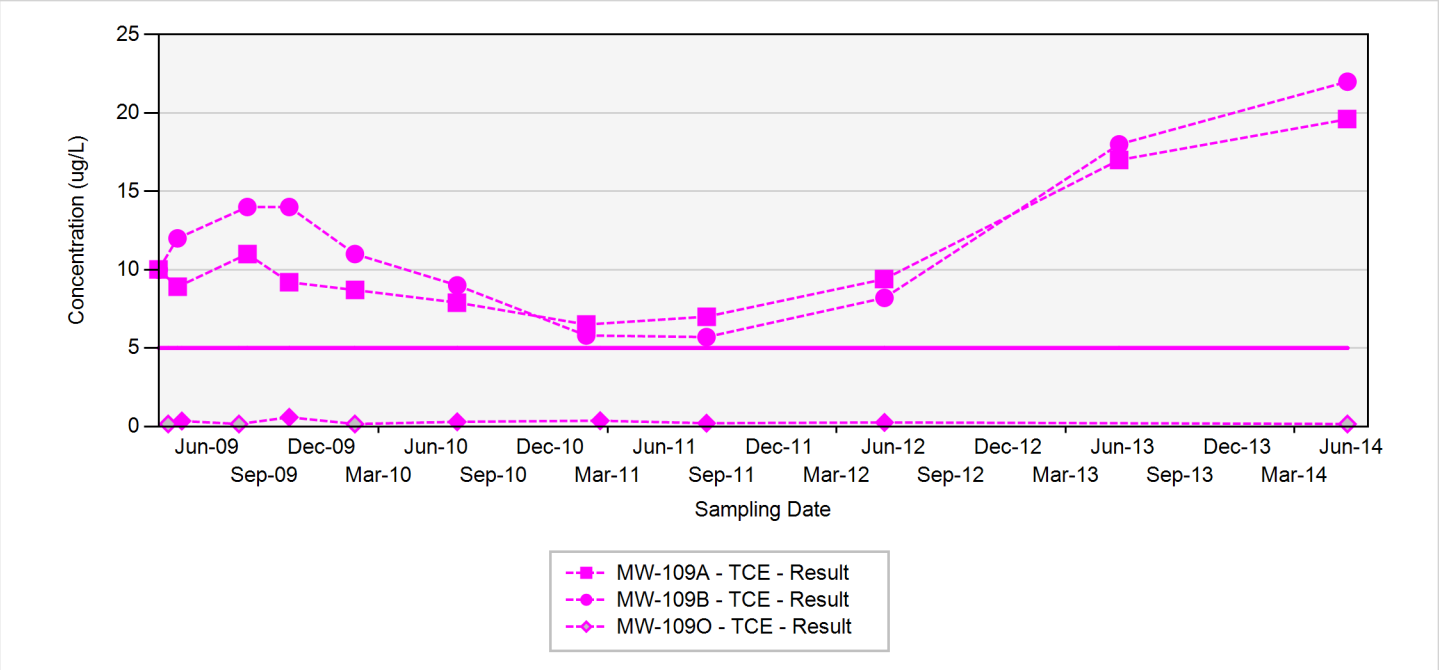
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-109





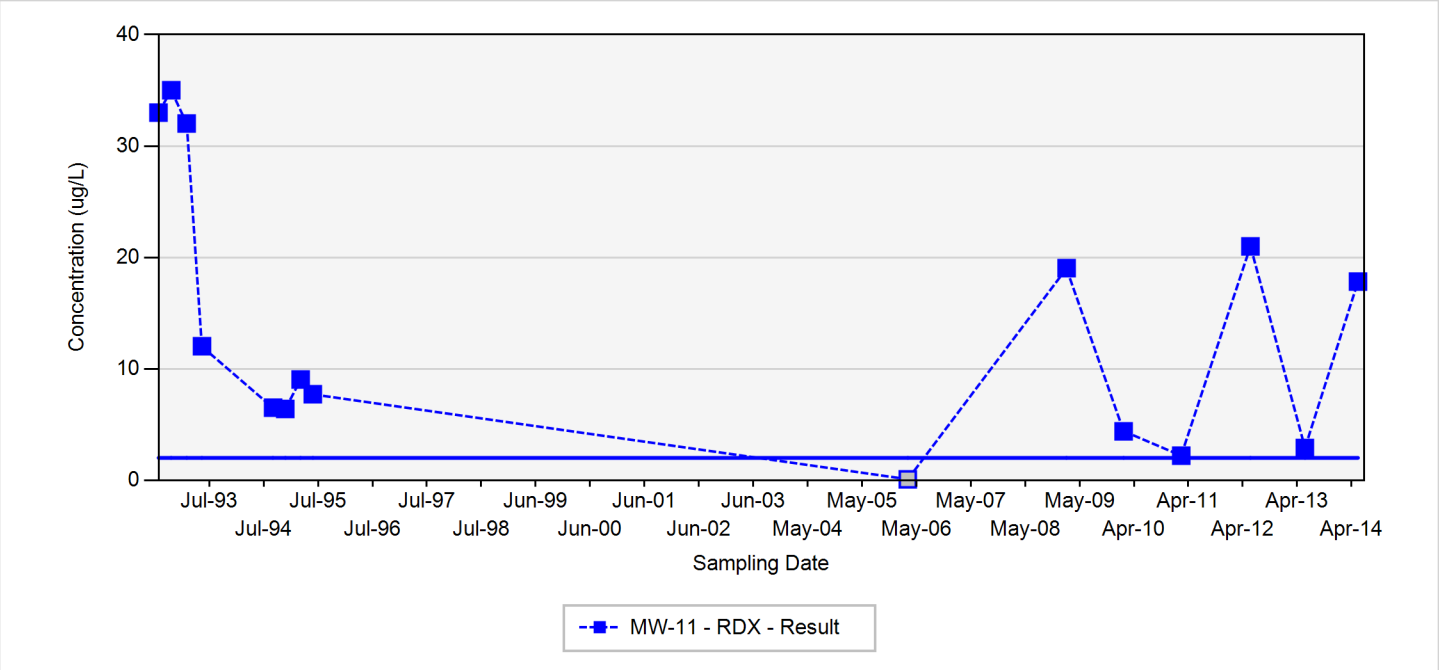
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

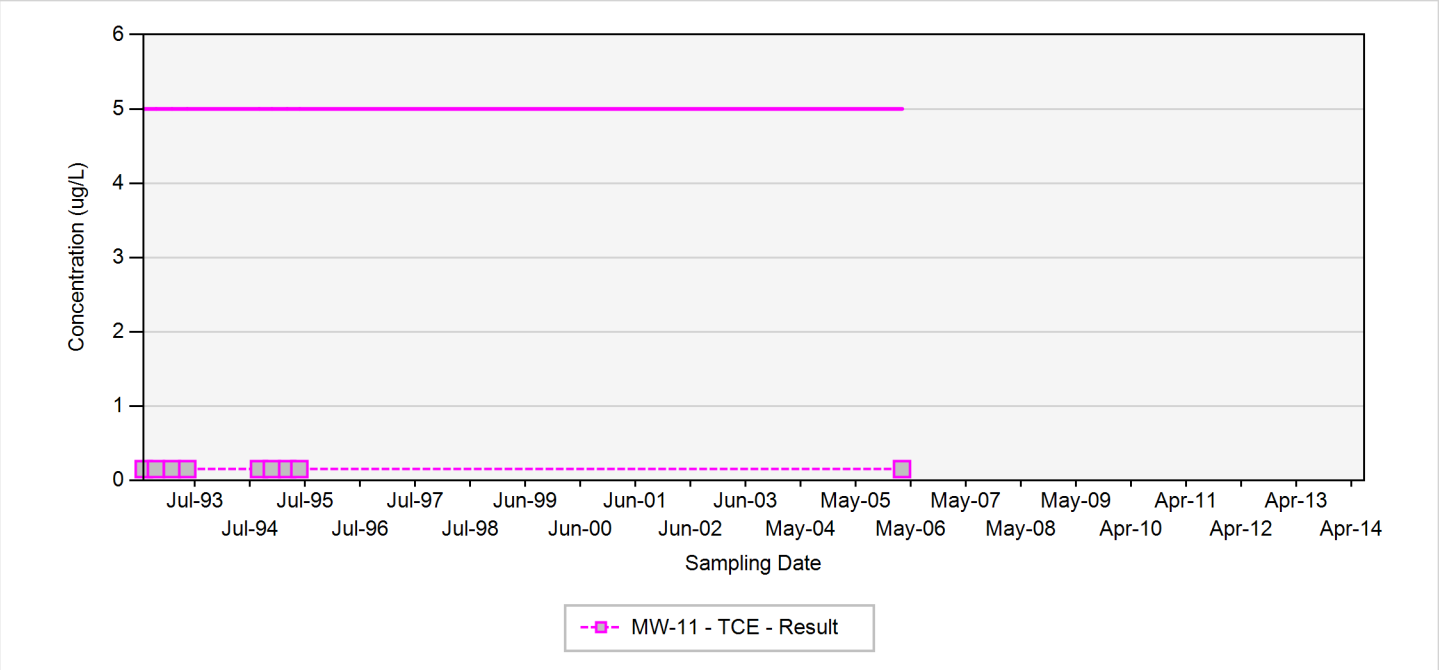
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-11





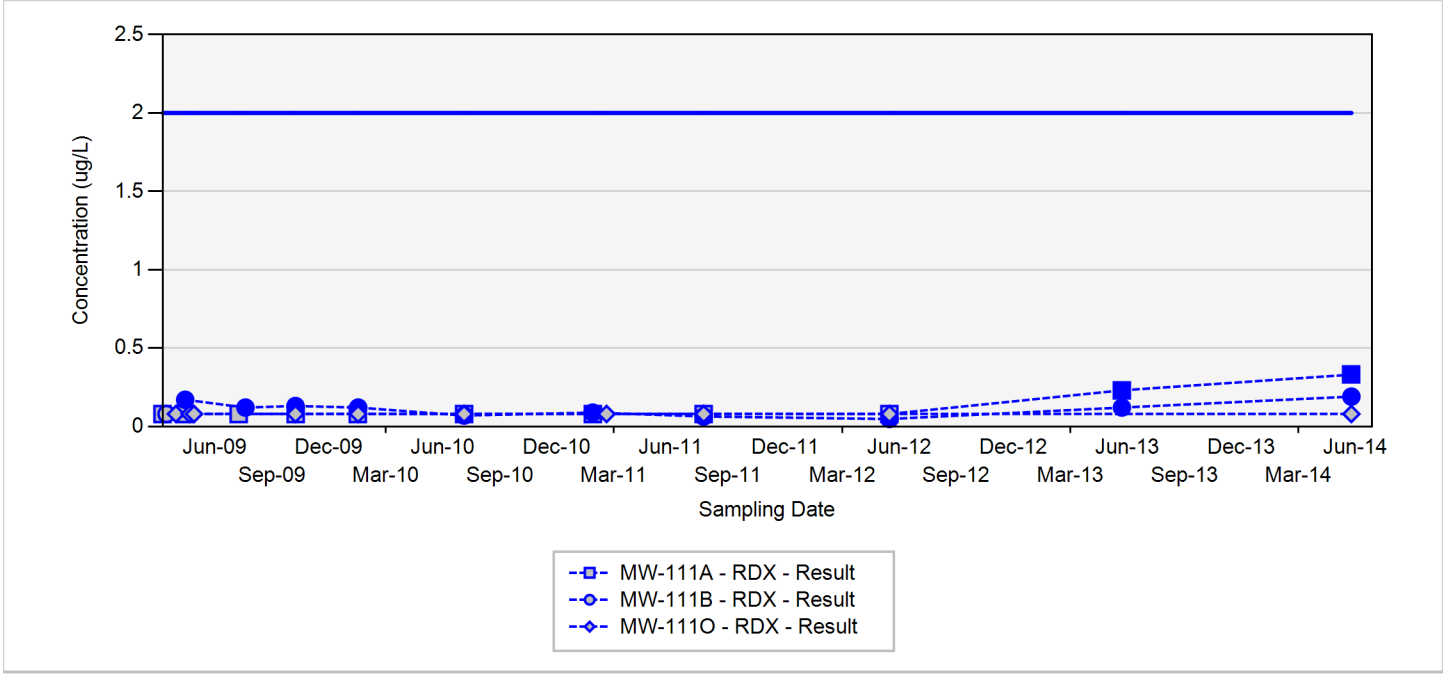
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

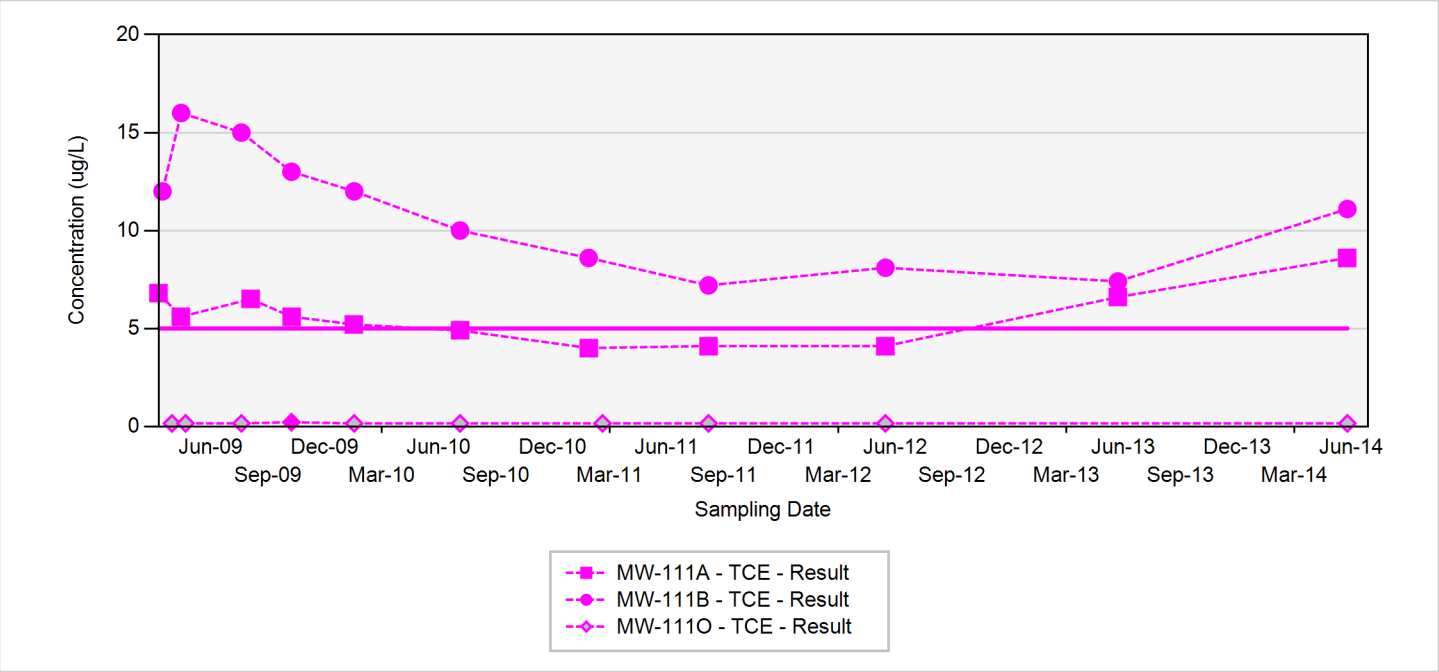
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-111





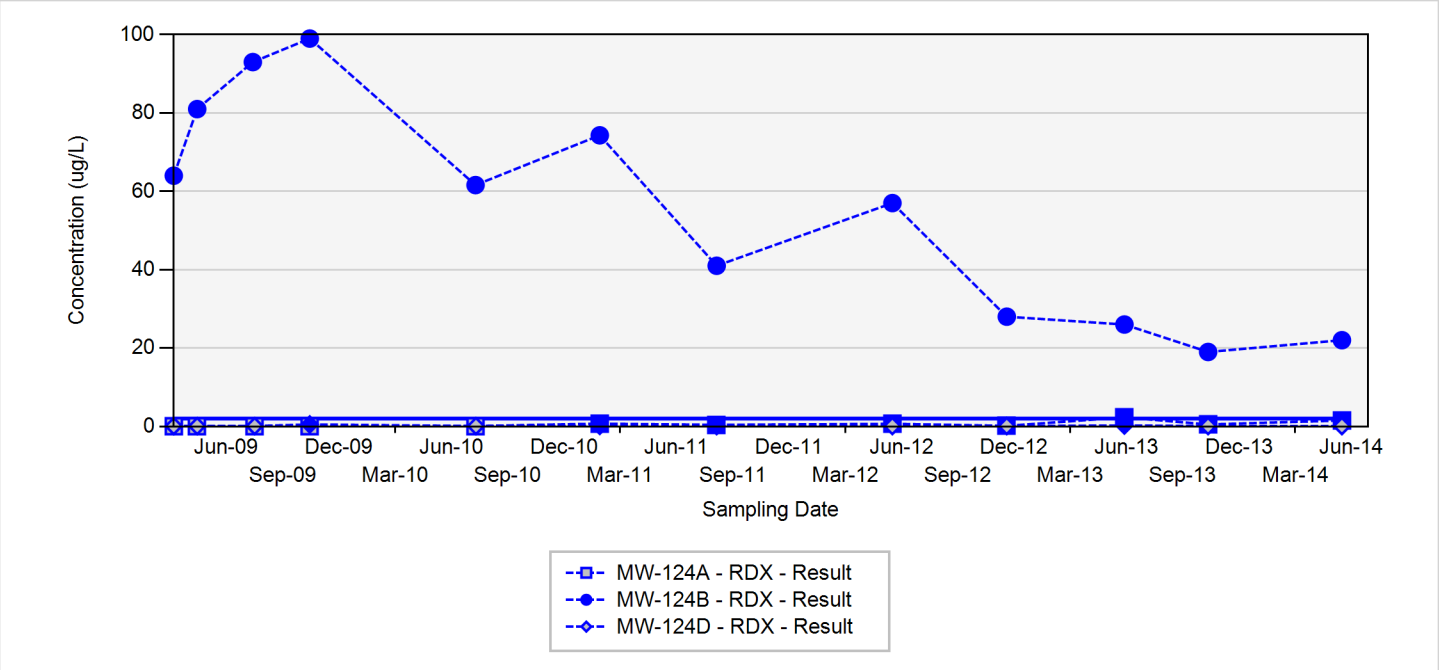
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

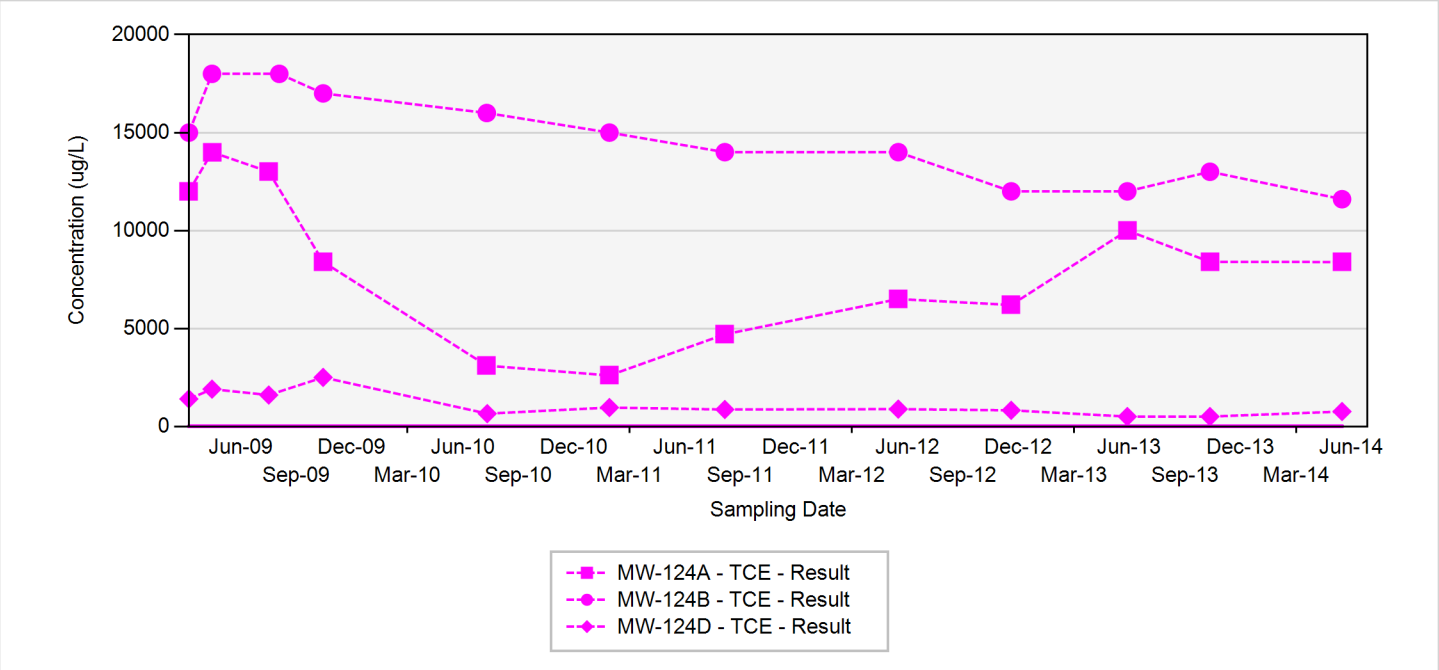
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-124





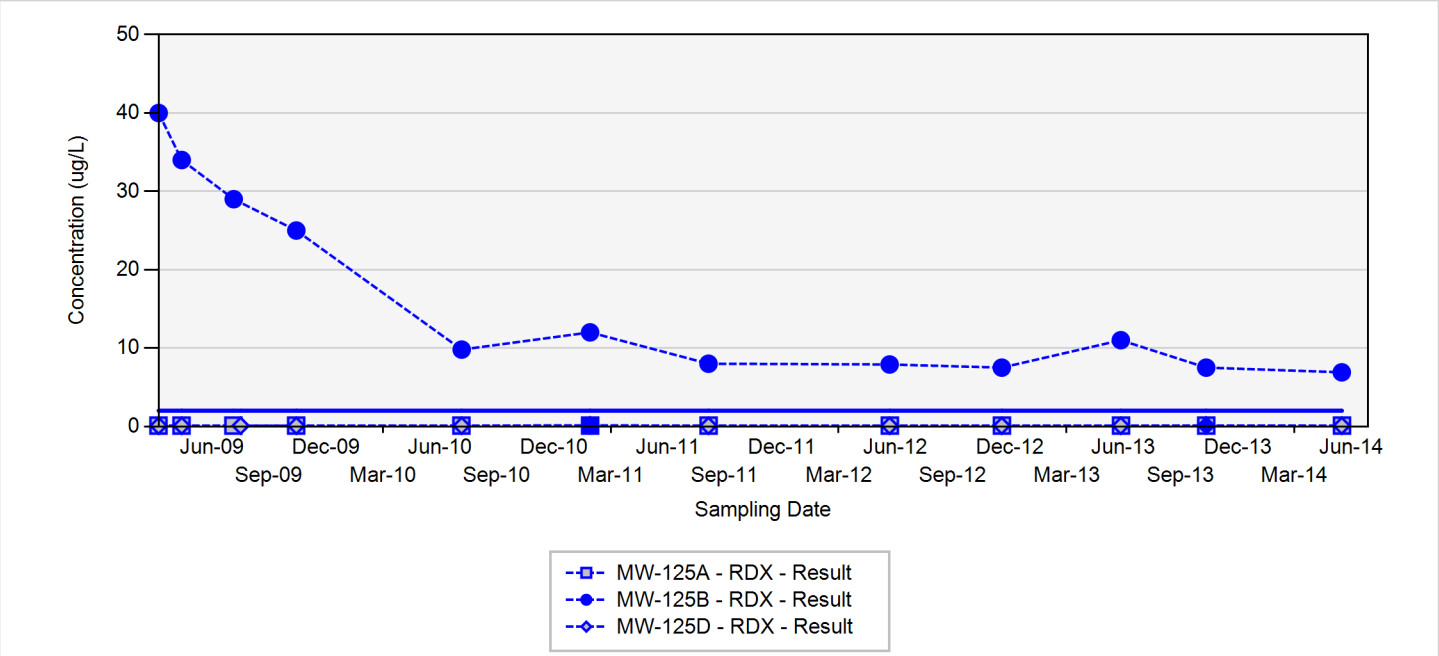
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

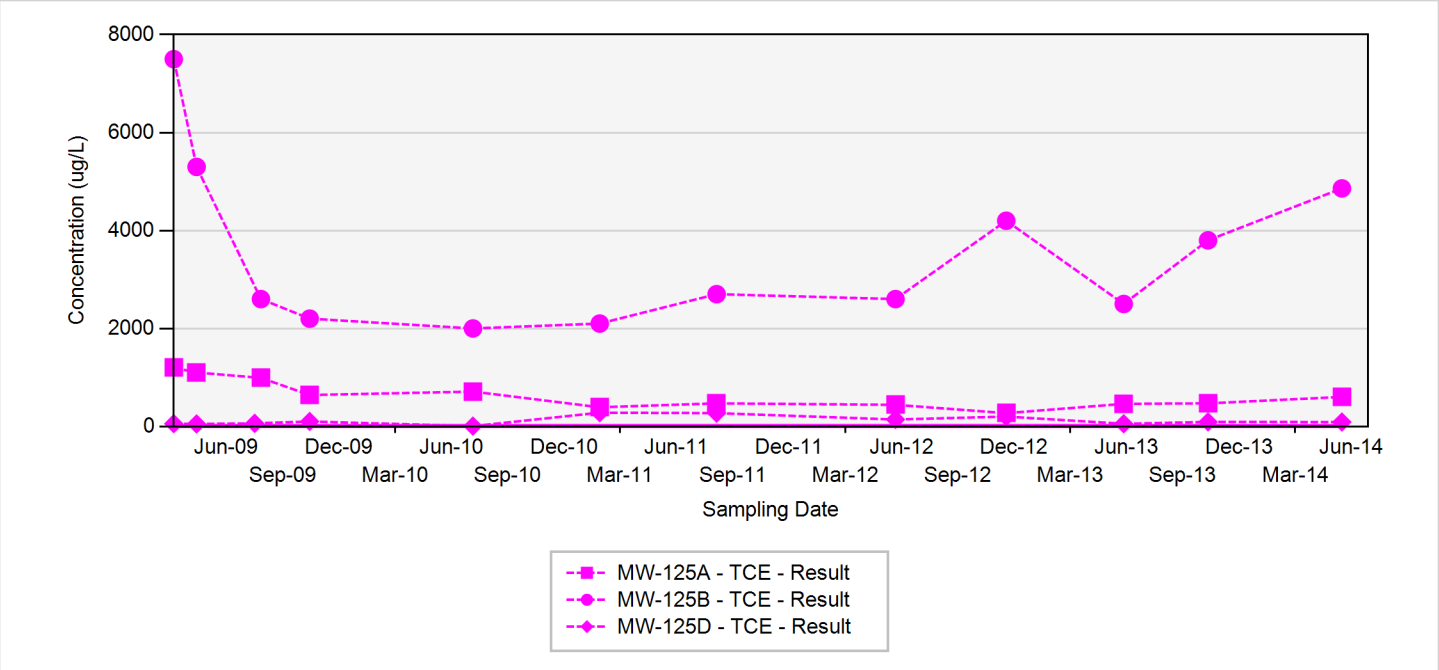
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-125





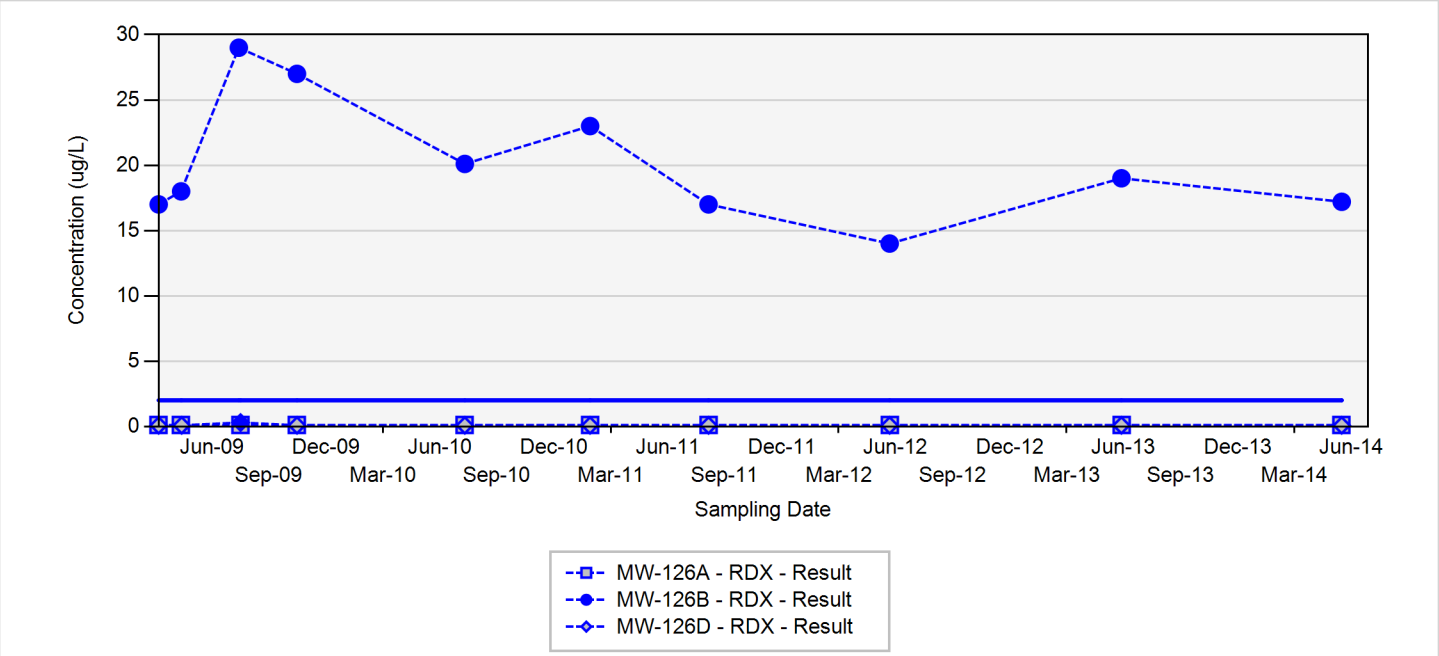
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

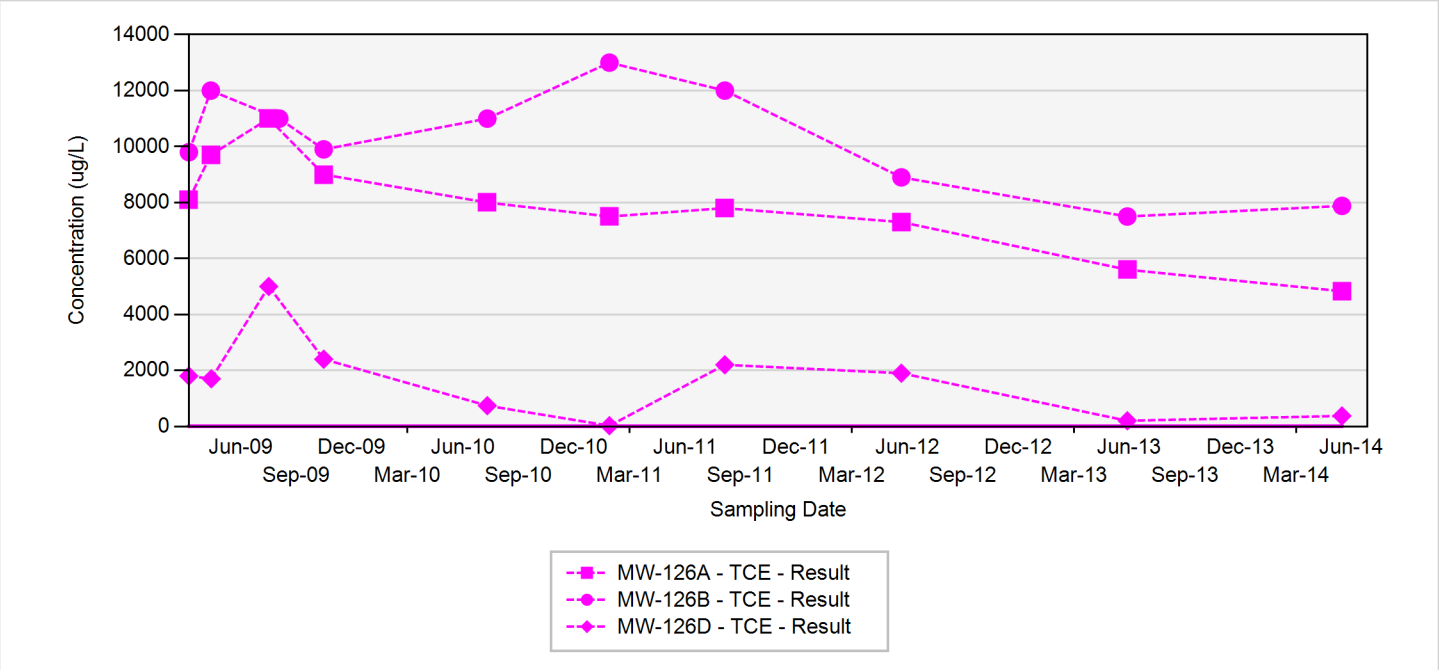
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-126





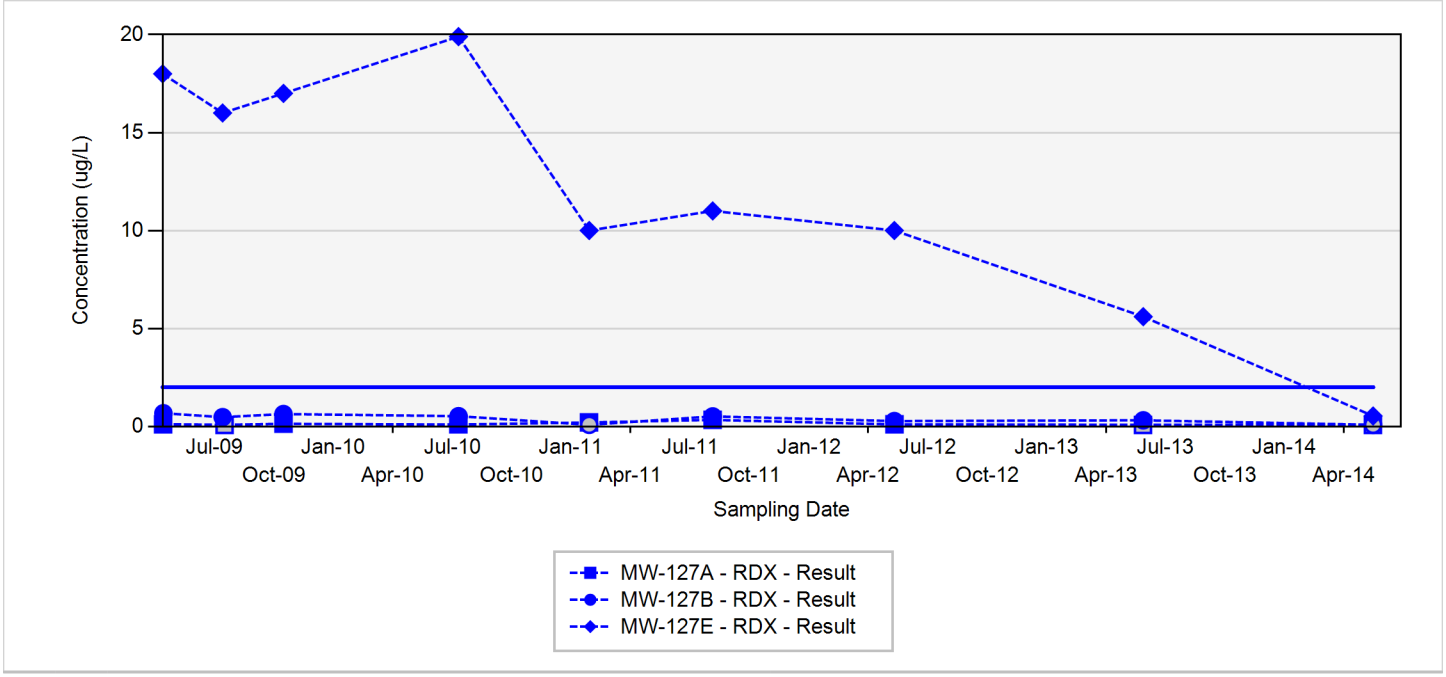
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

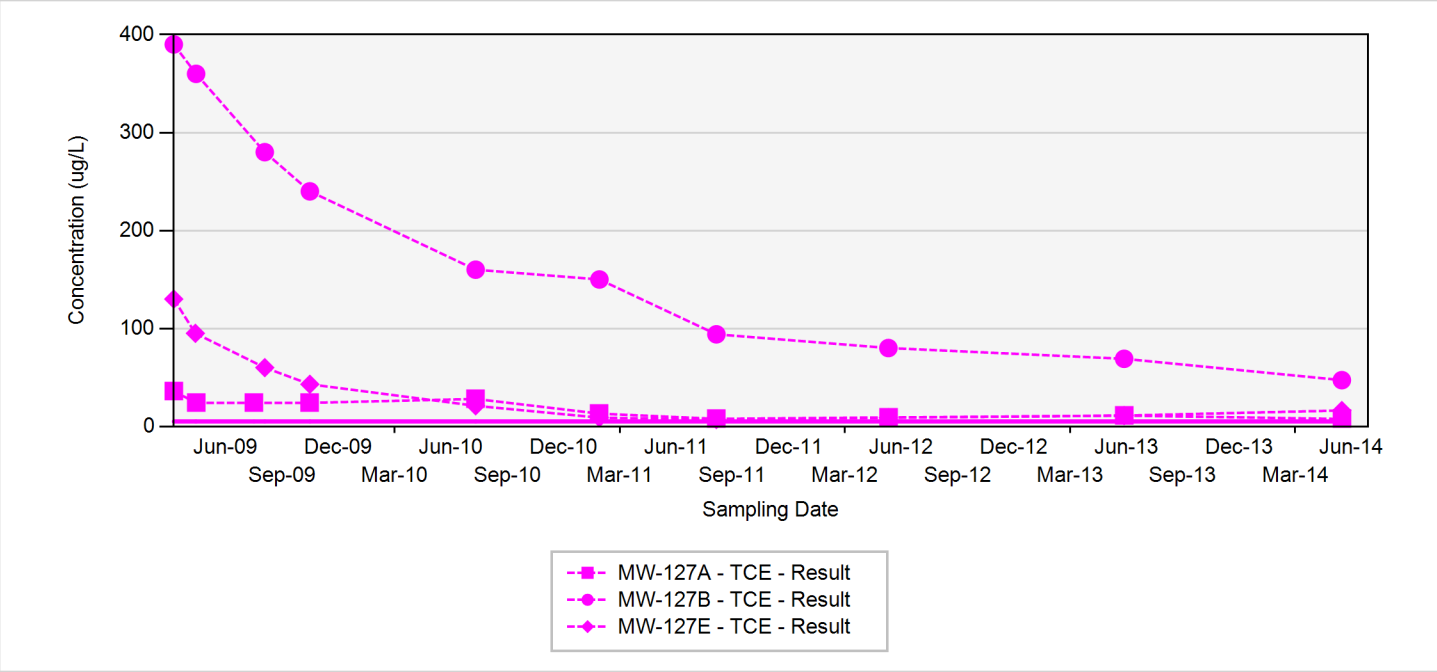
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-127





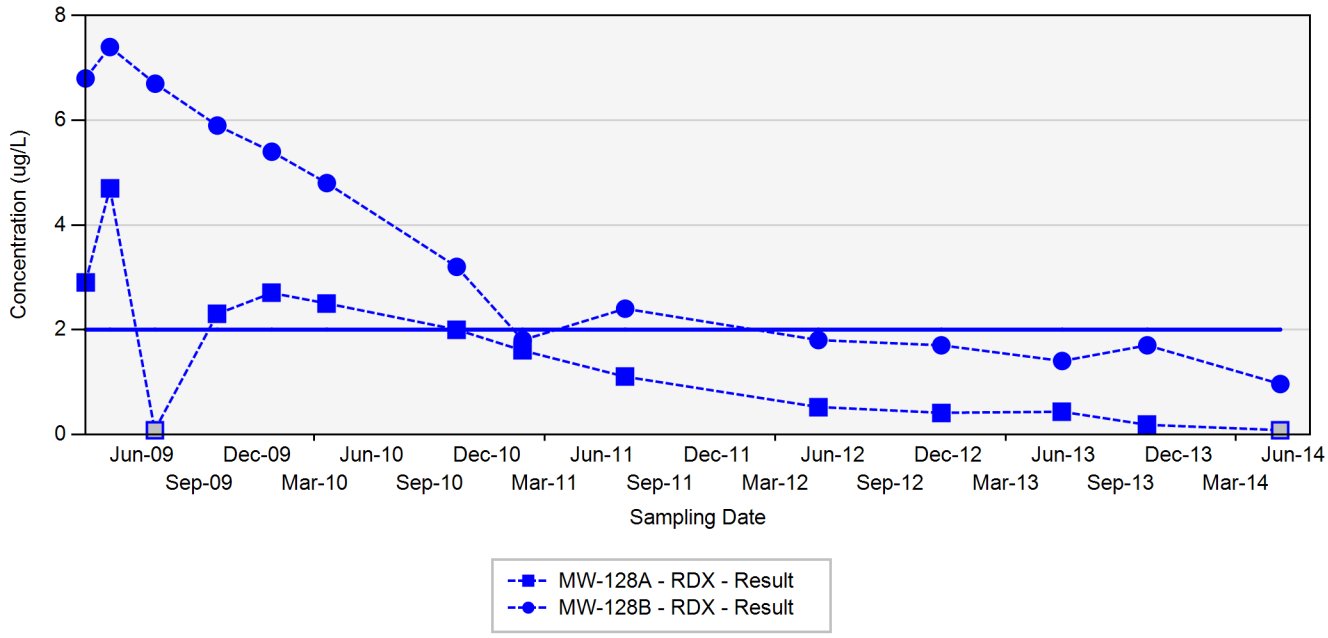
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-128



No Data Available

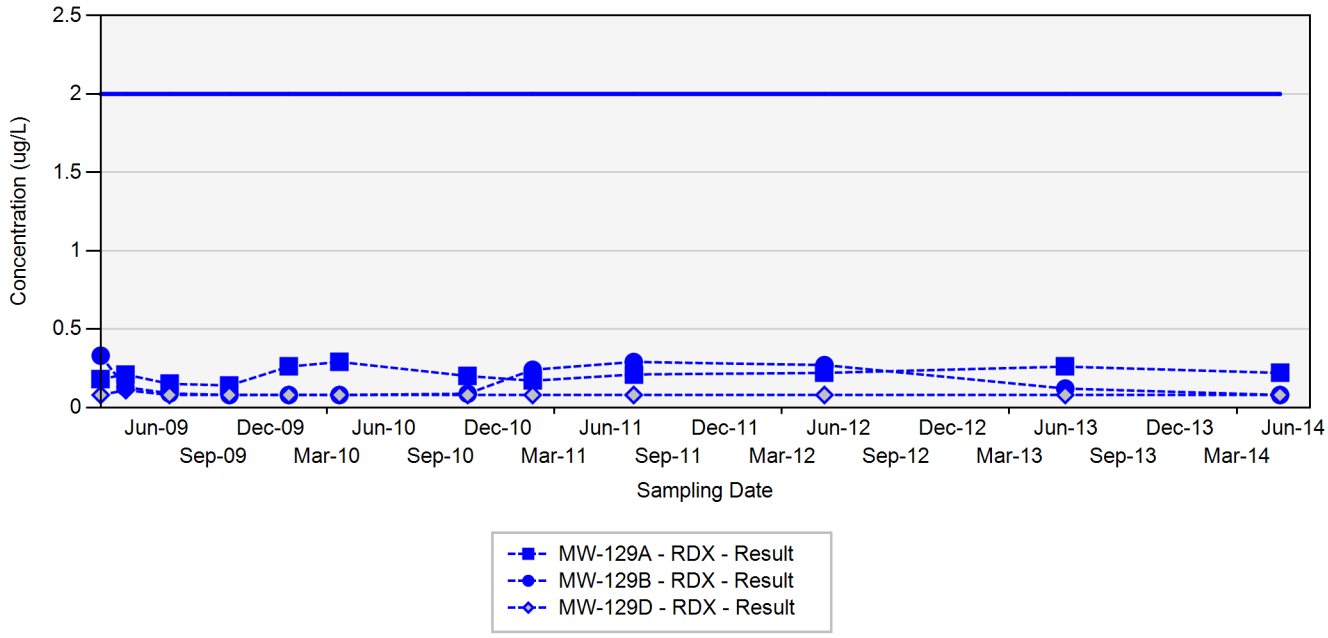
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-129



No Data Available

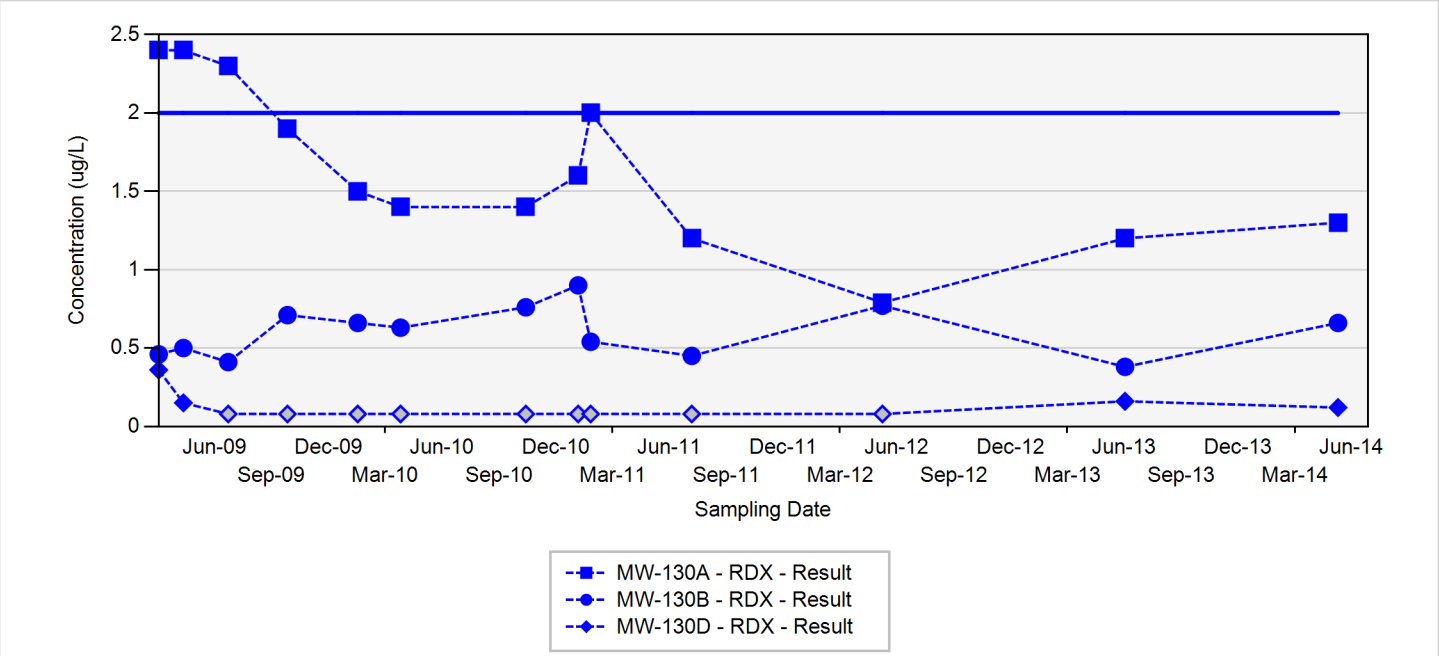
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-130



No Data Available

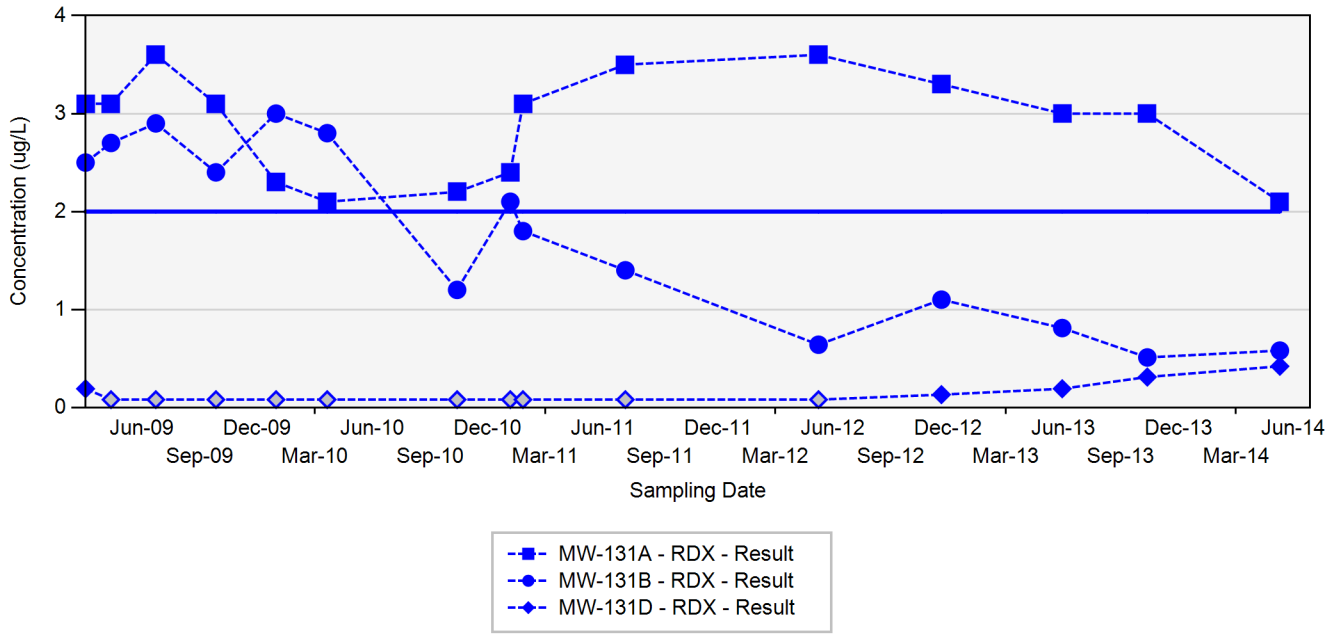
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-131



No Data Available

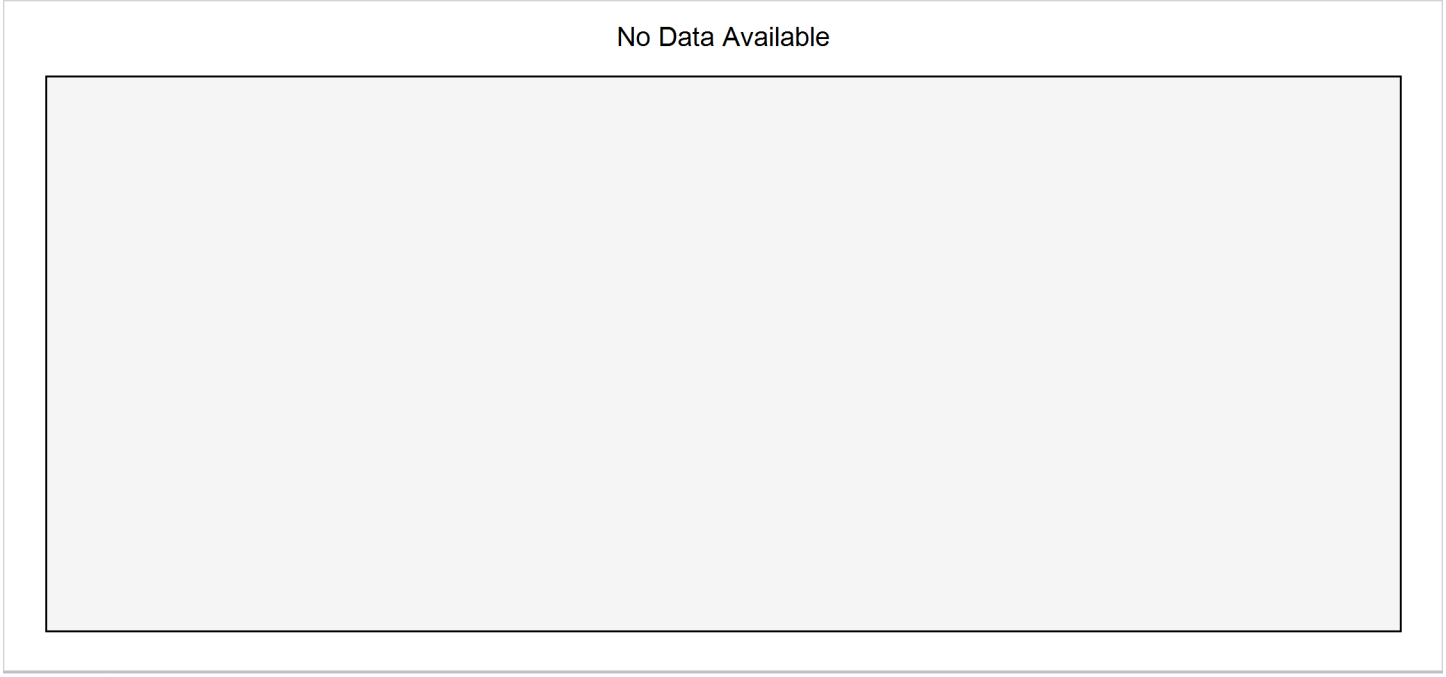
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

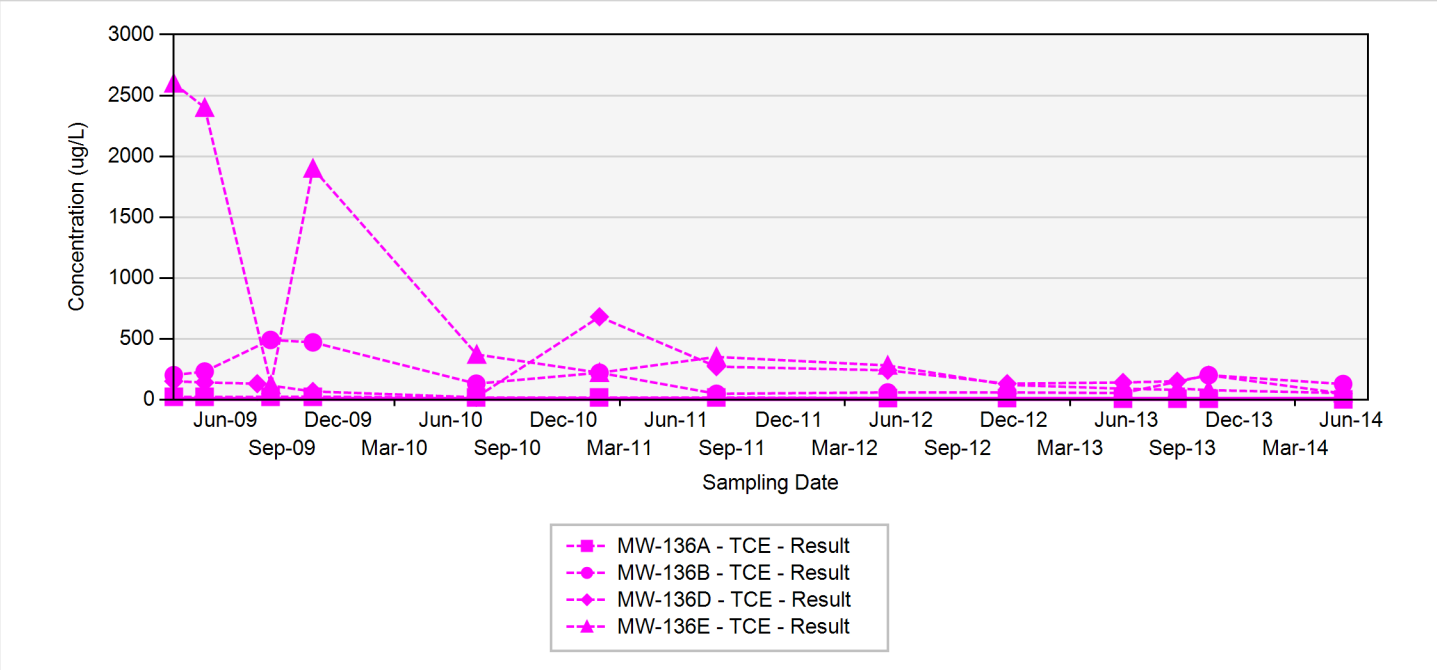
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-136





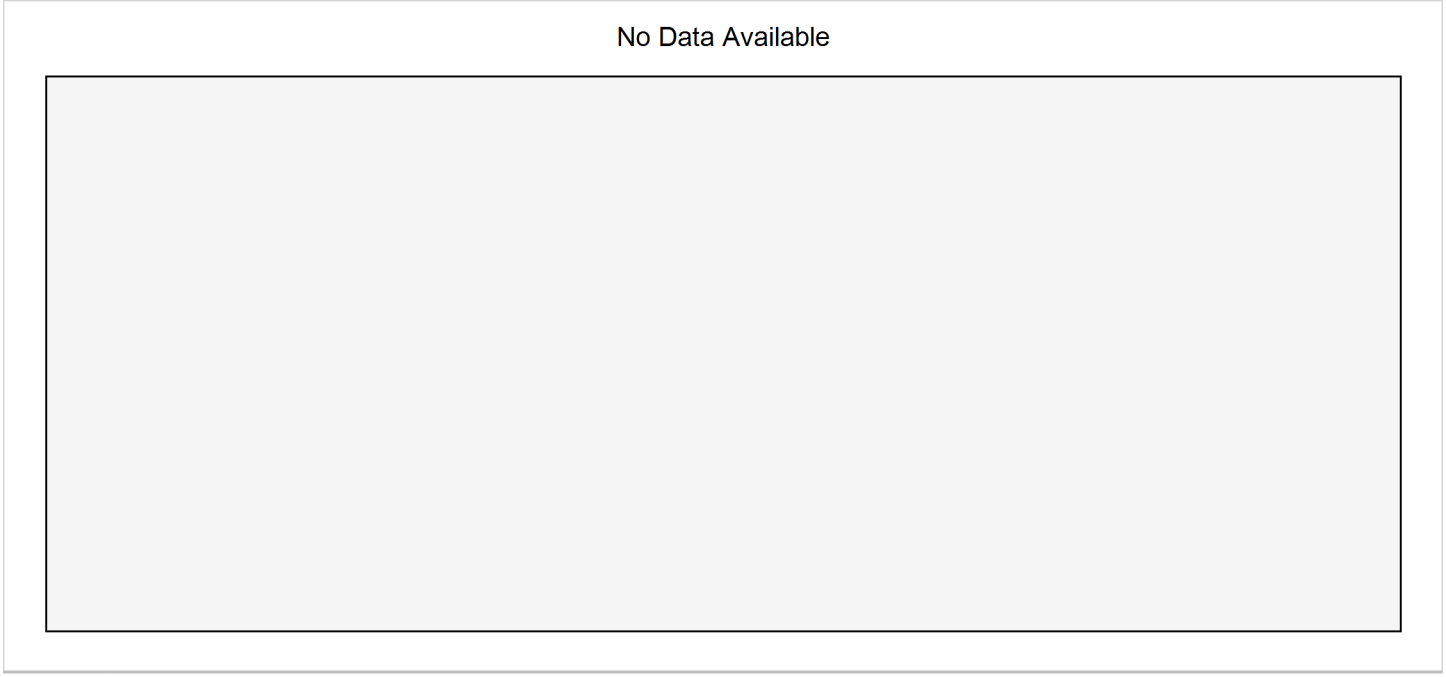
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

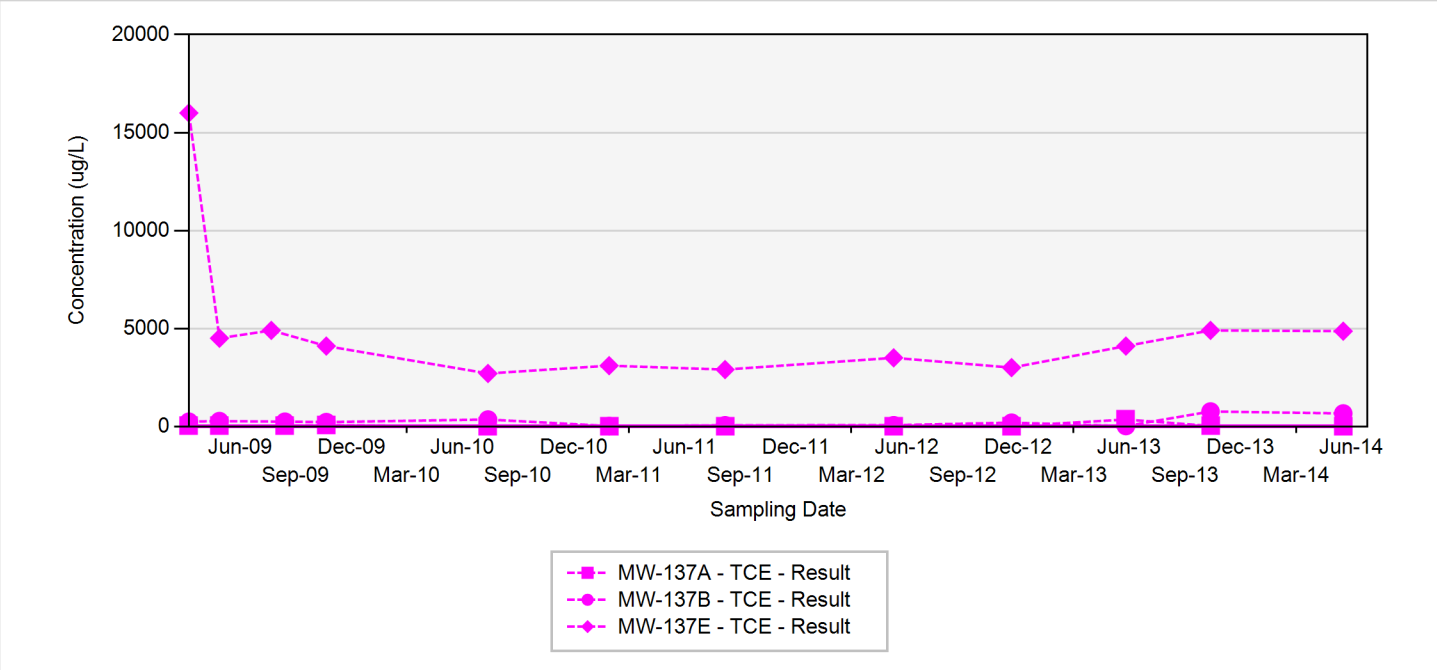
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-137





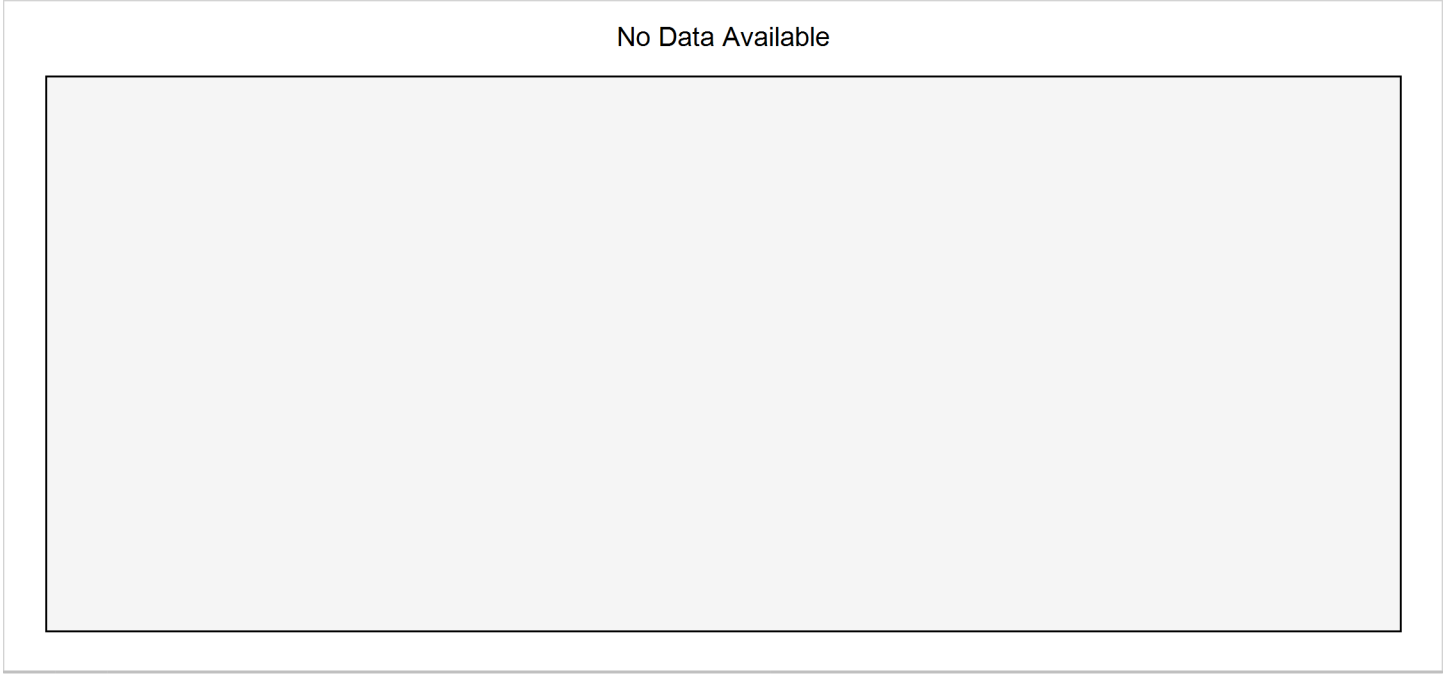
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

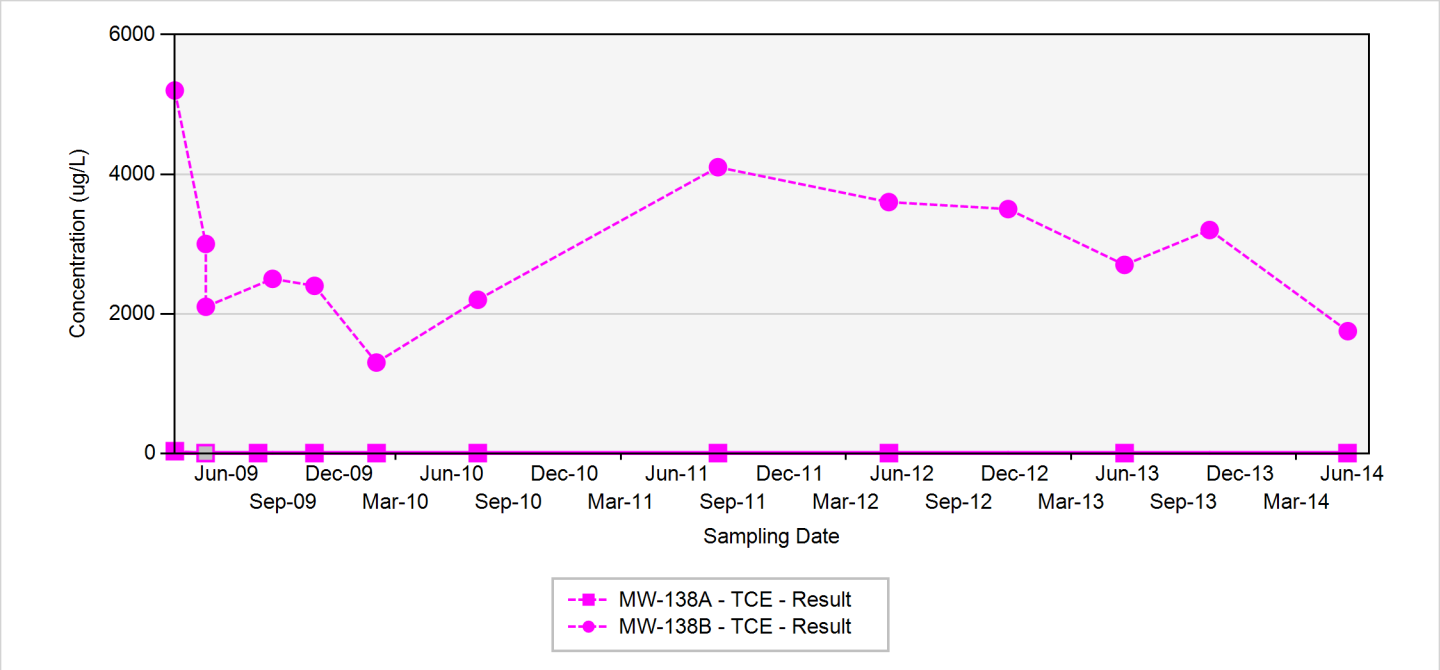
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-138





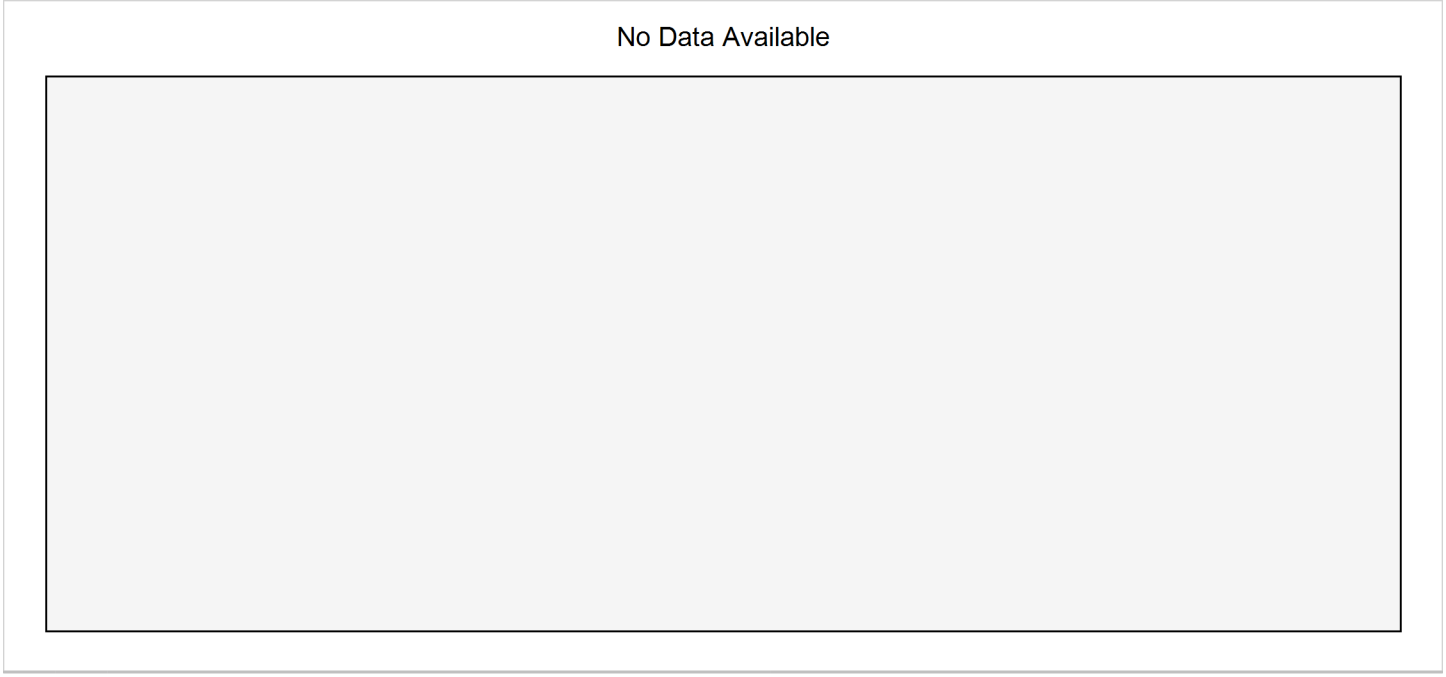
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

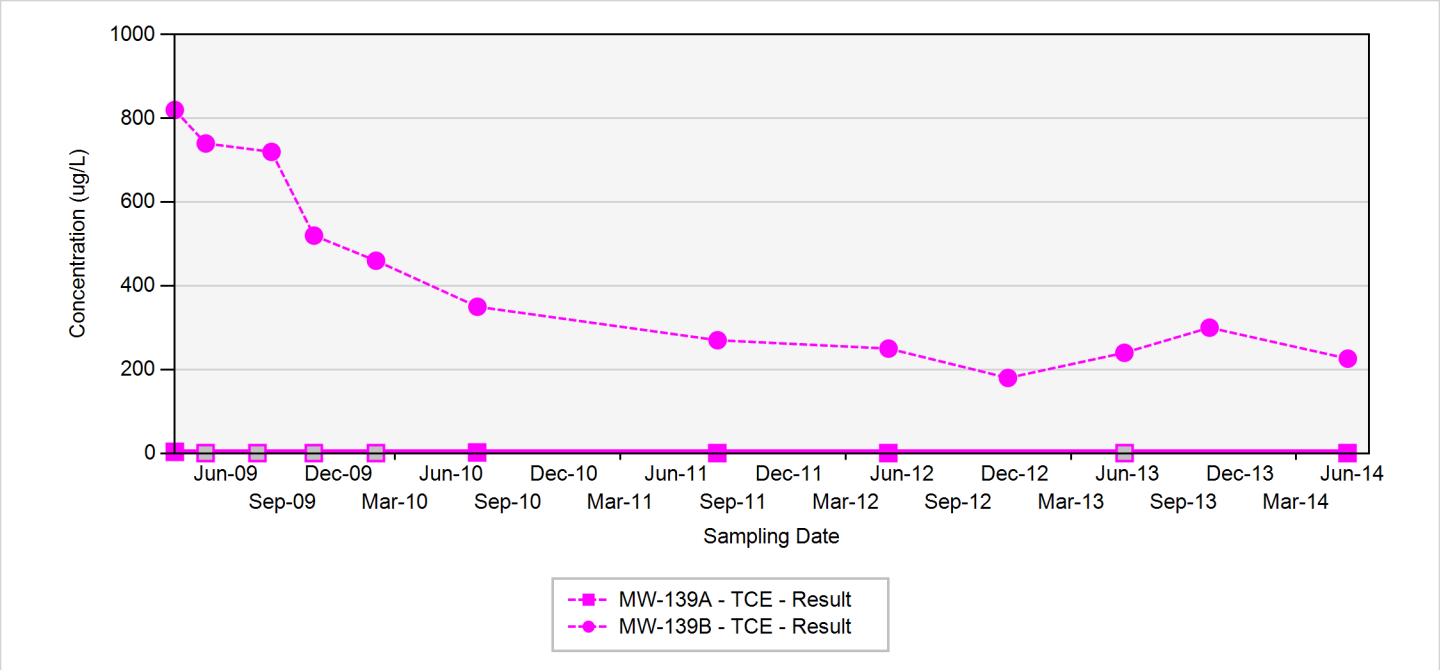
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-139





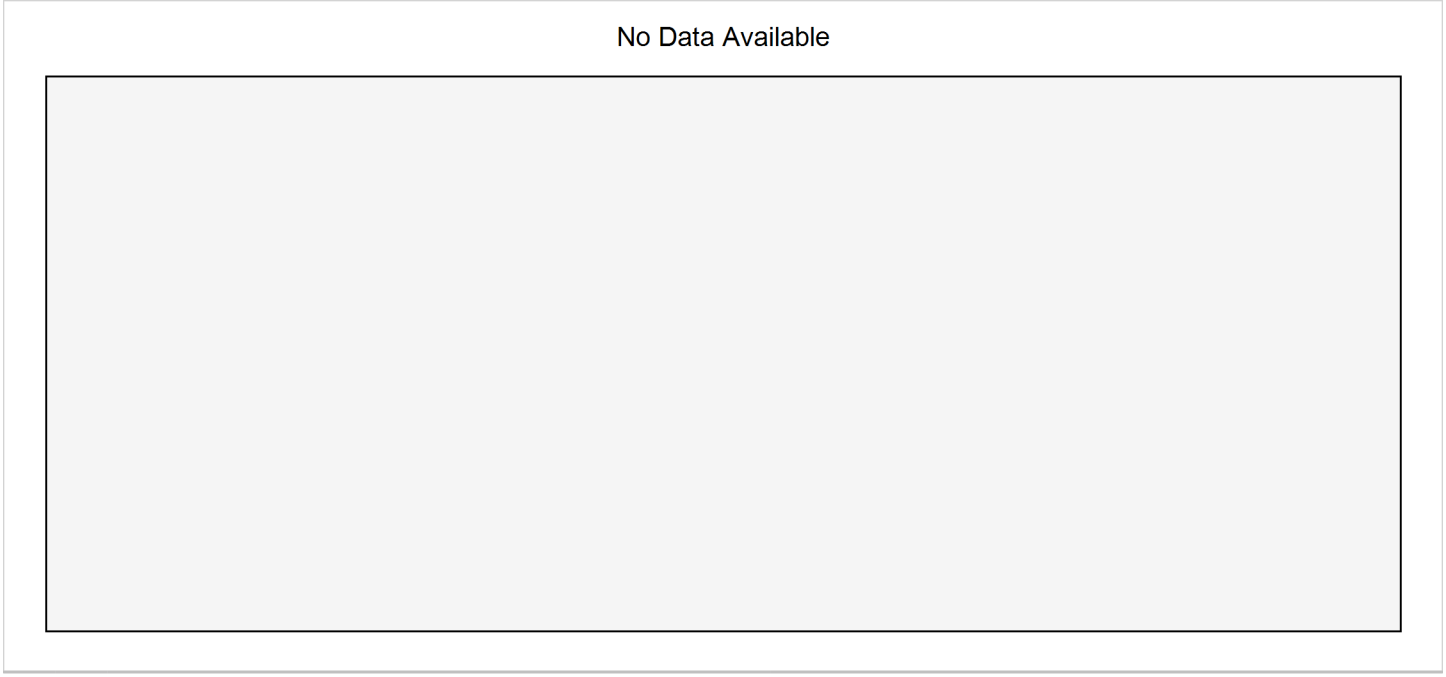
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

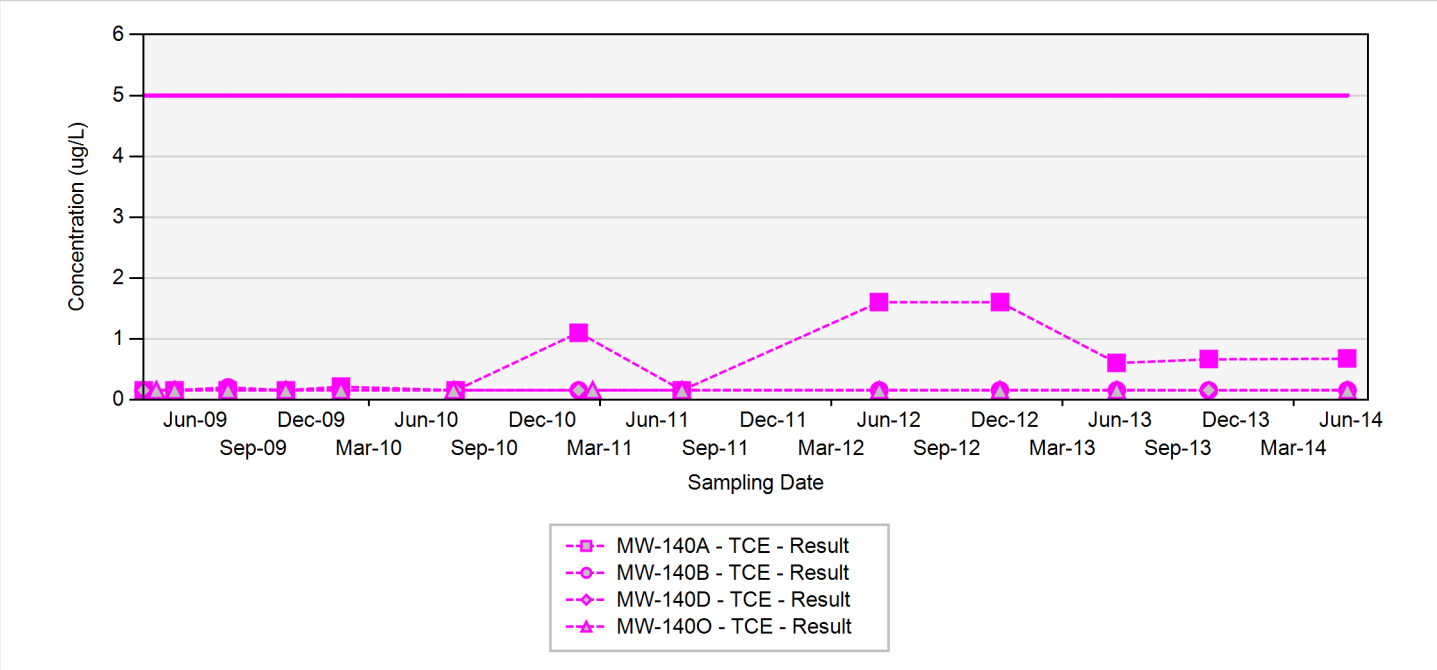
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-140





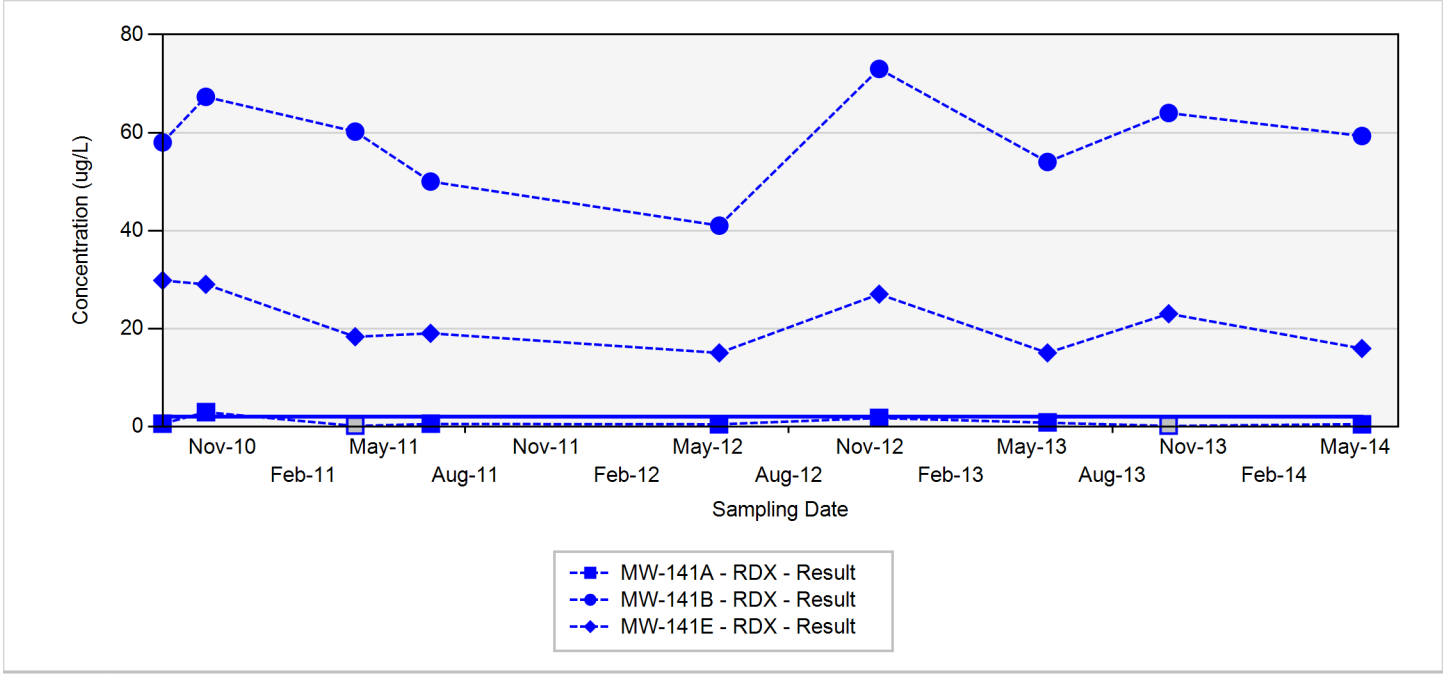
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 ug/L
Final Target Groundwater Cleanup Goals for RDX is 2 ug/L

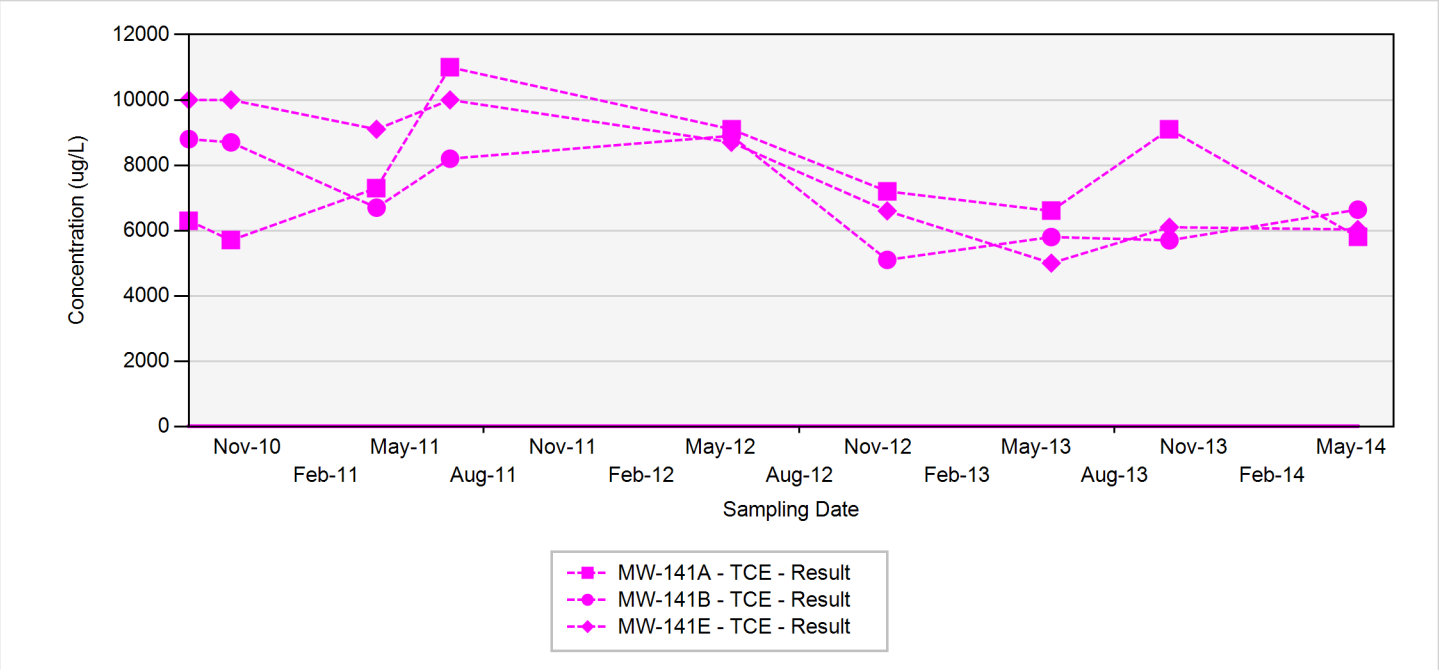
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-141





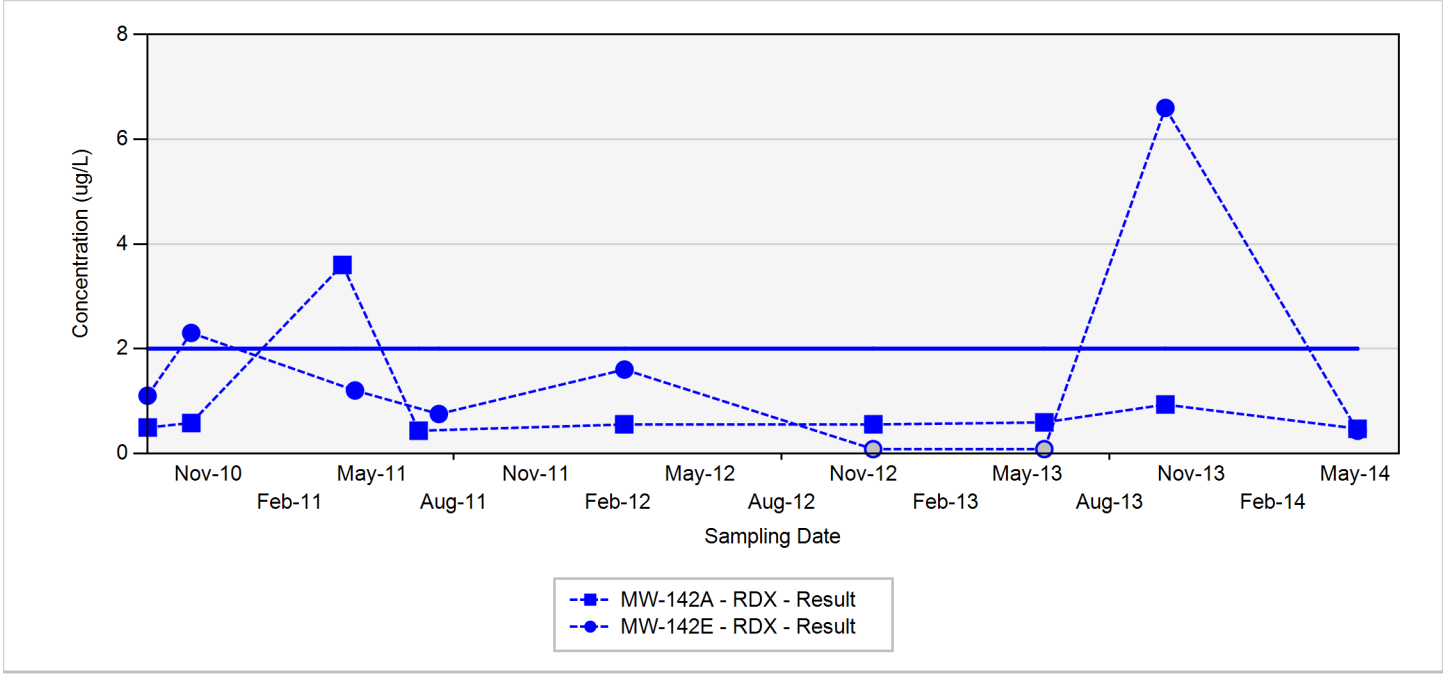
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

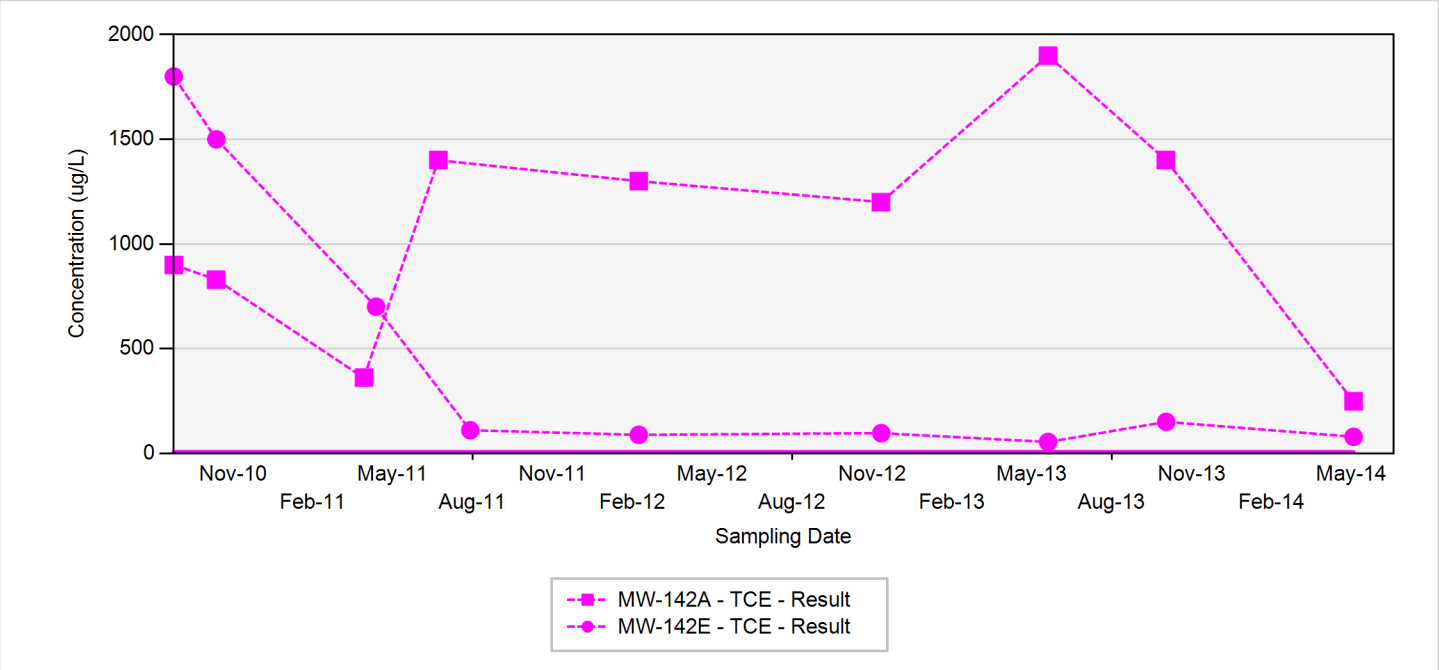
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-142





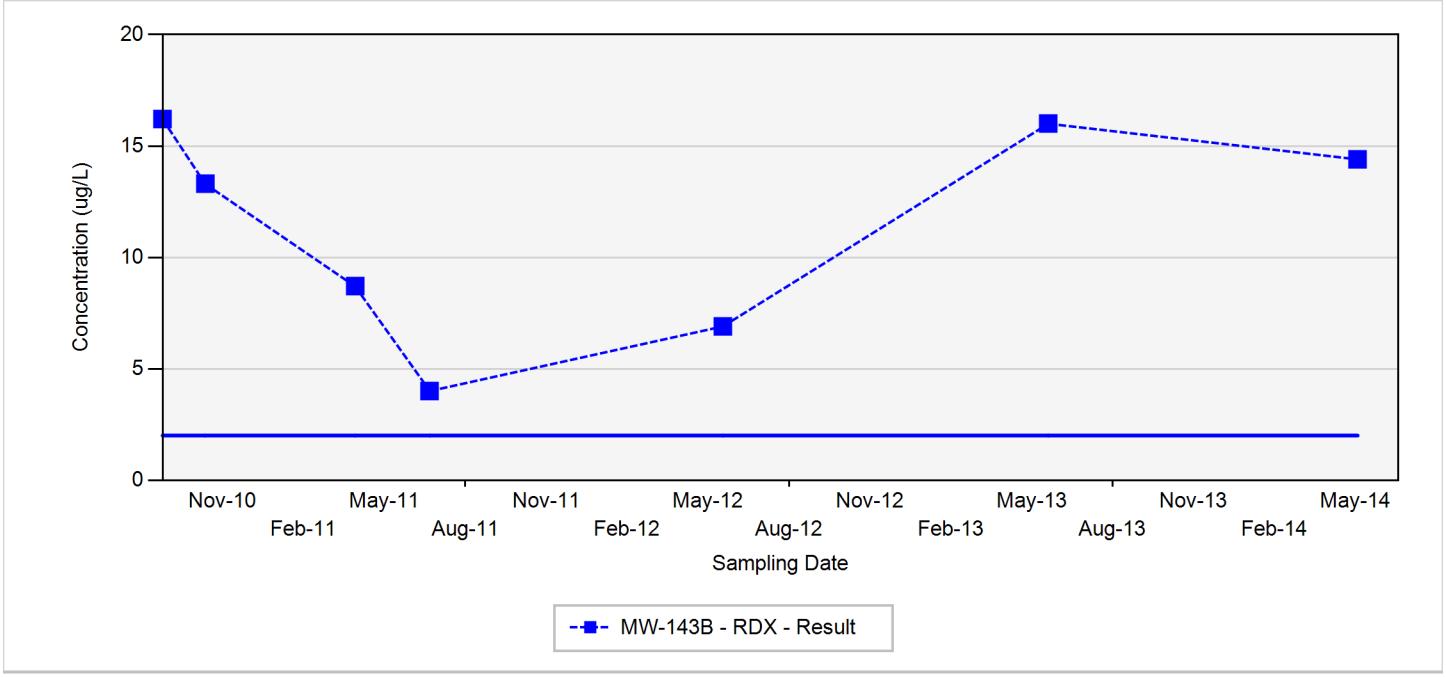
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

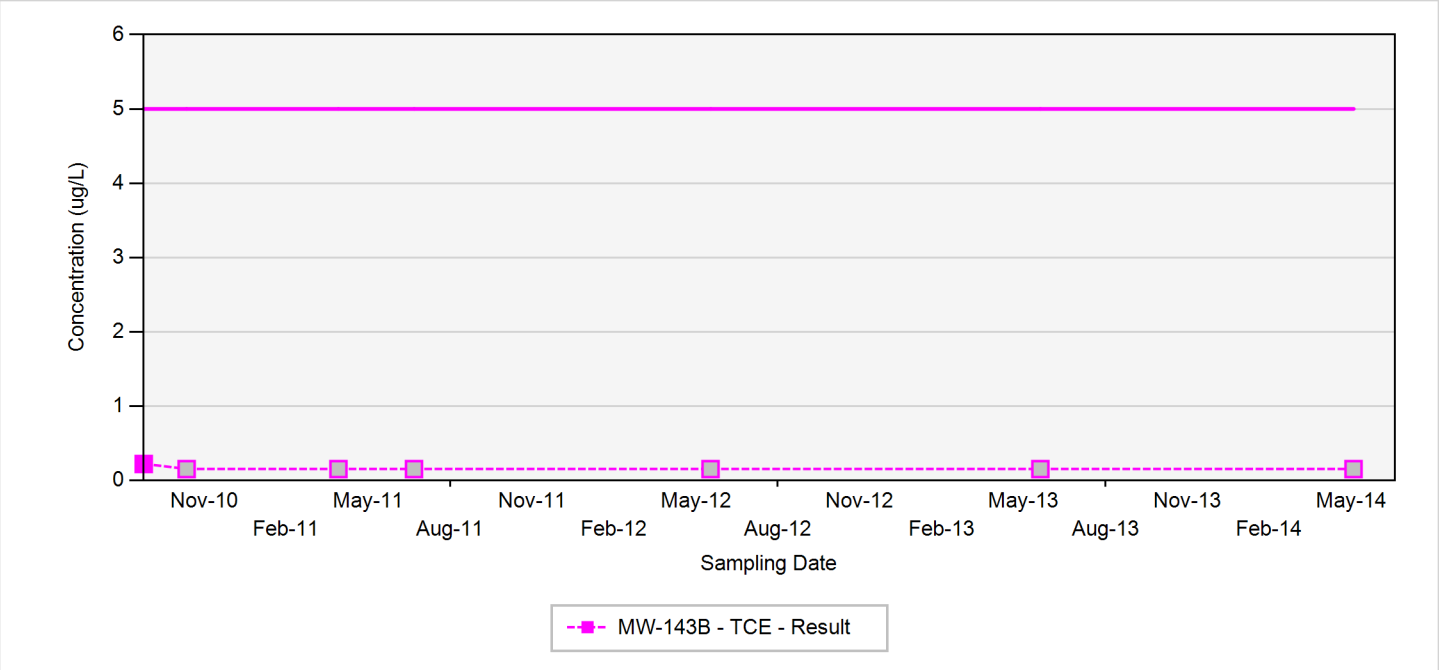
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-143





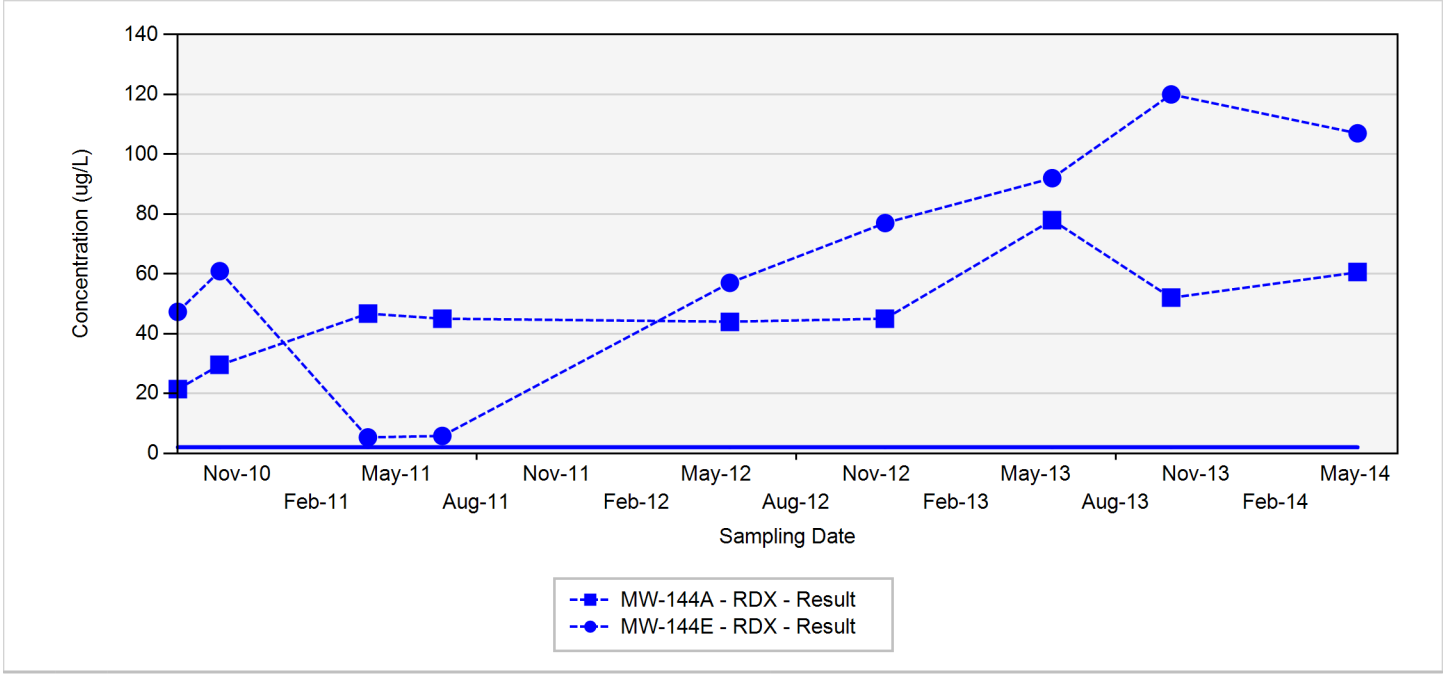
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

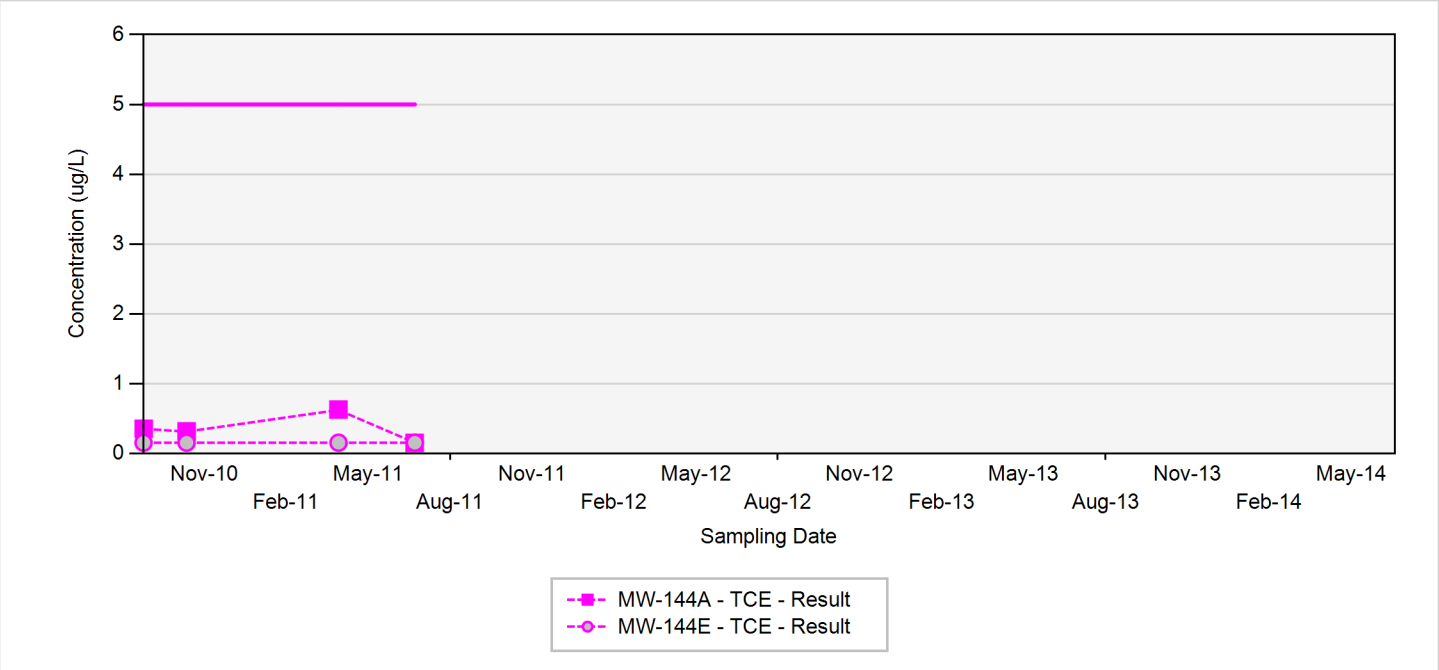
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-144





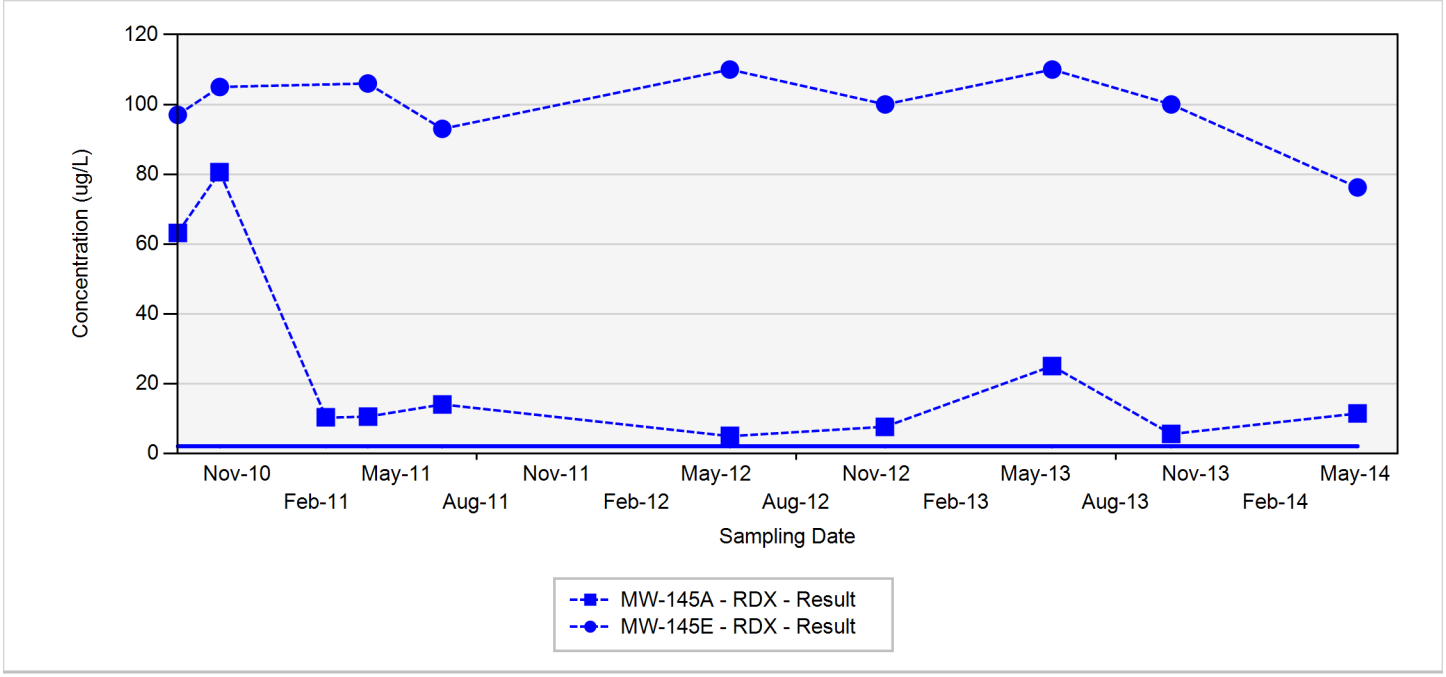
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

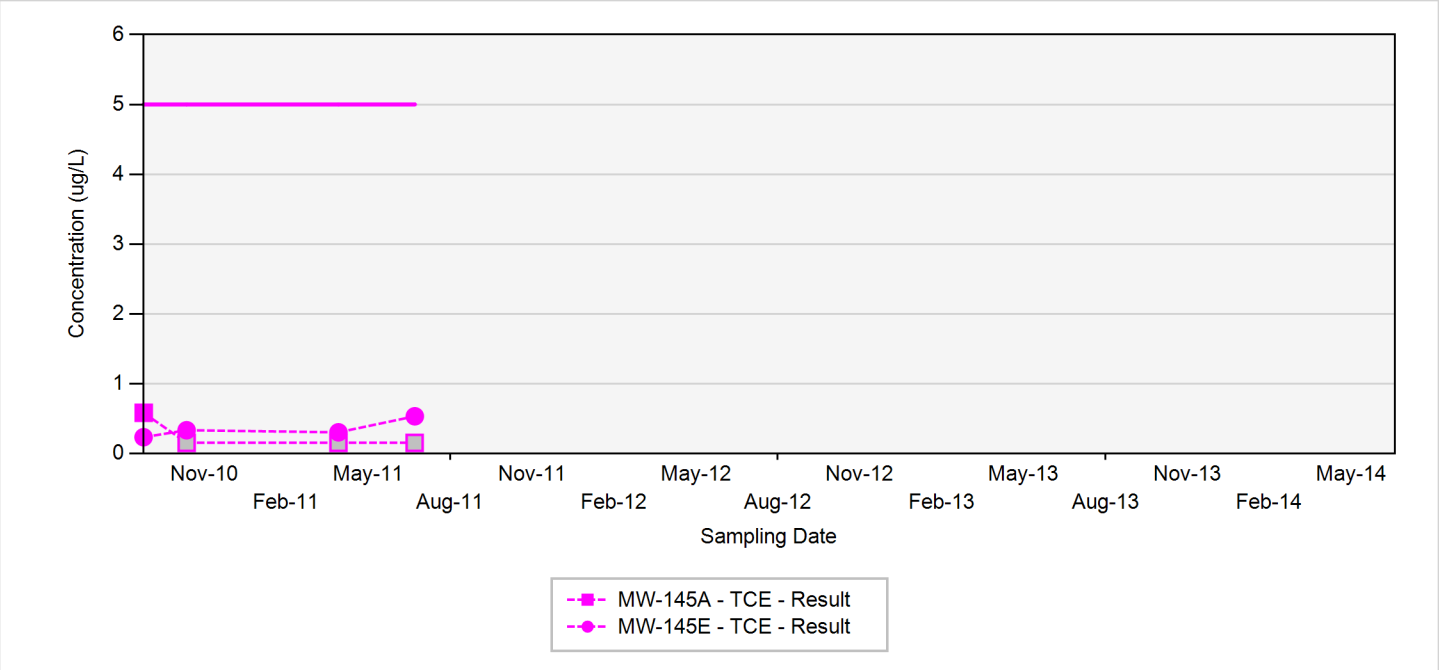
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-145





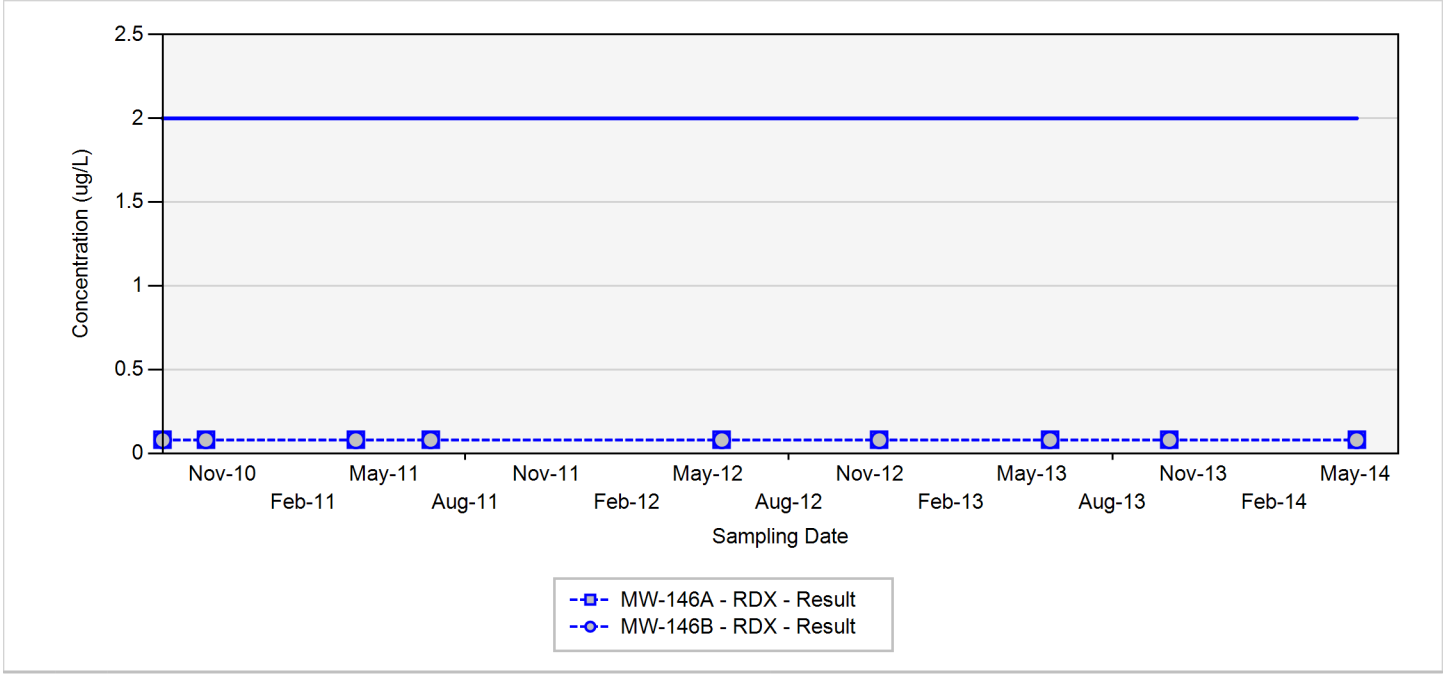
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

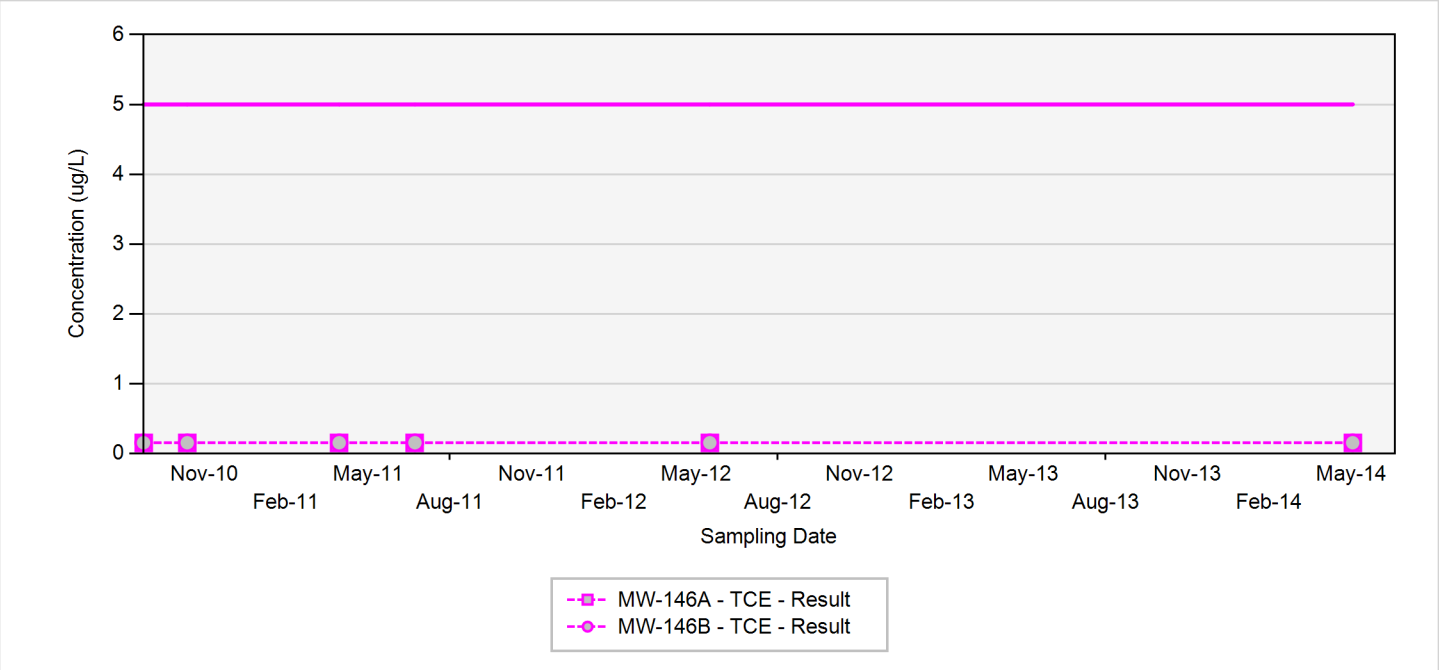
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-146





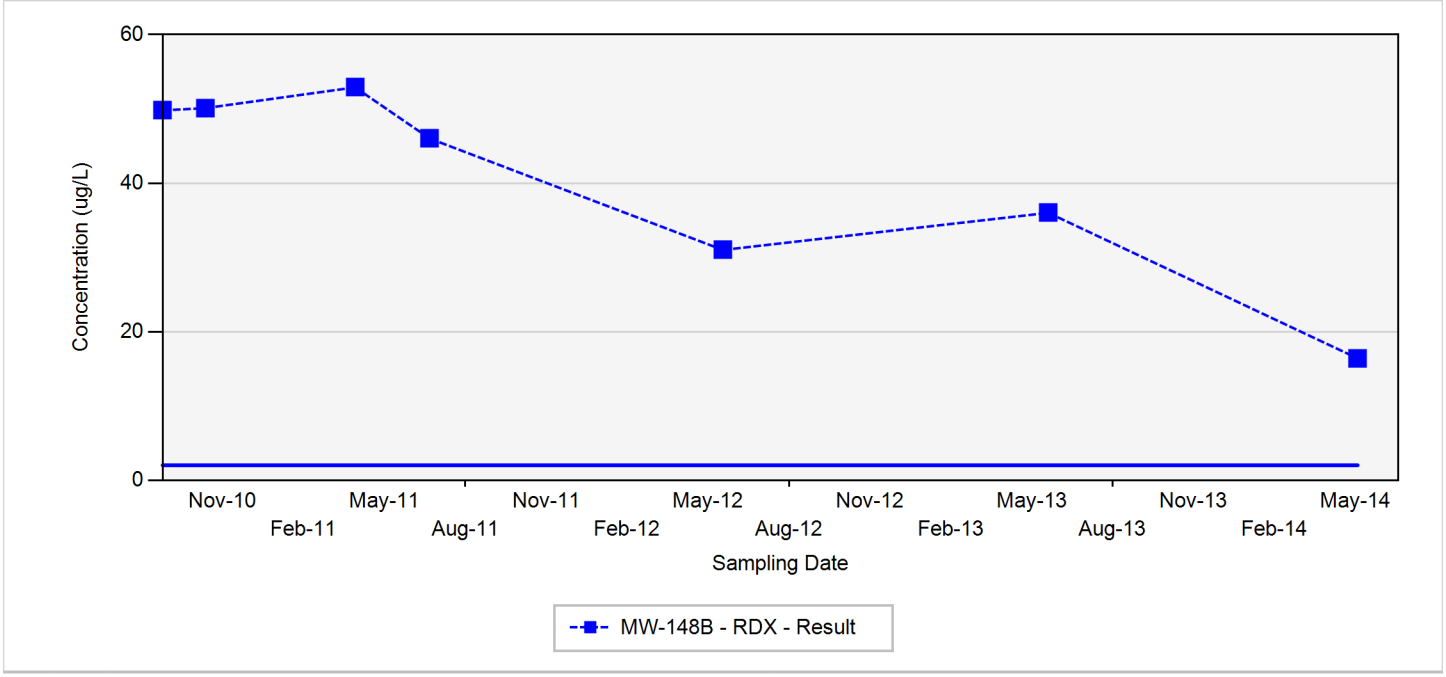
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

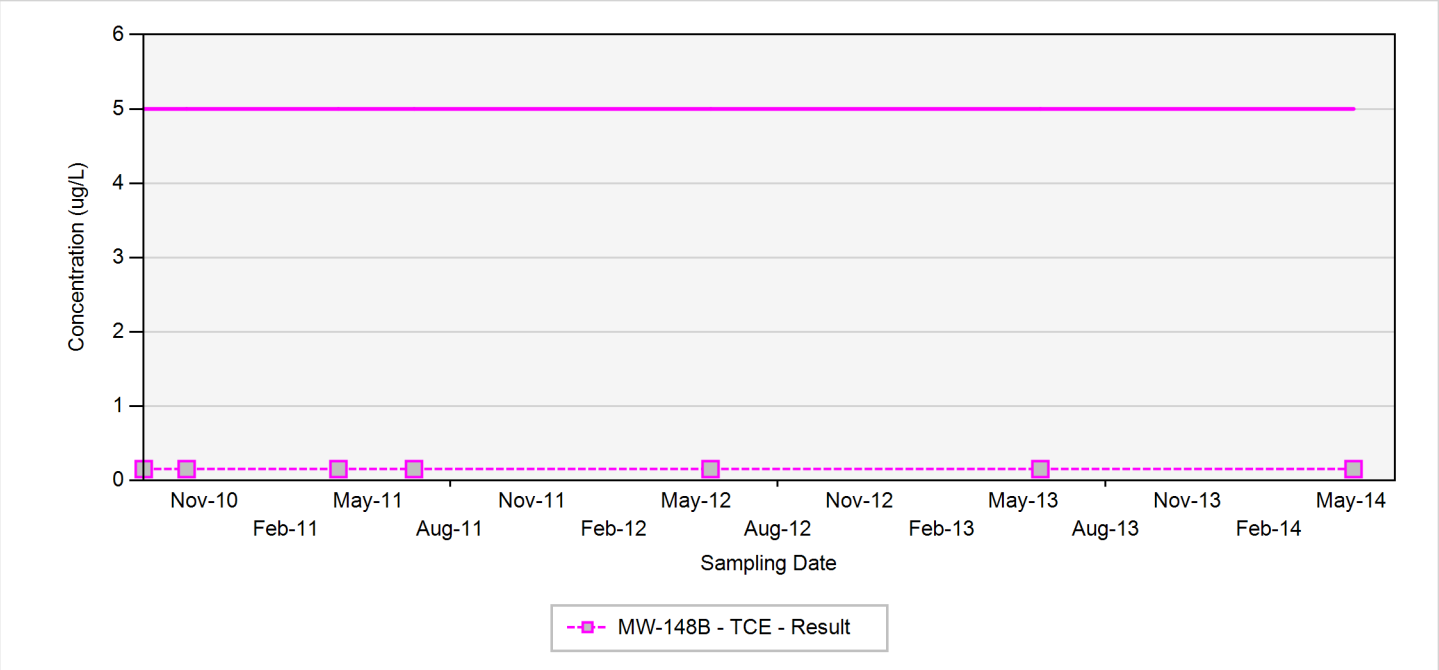
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-148





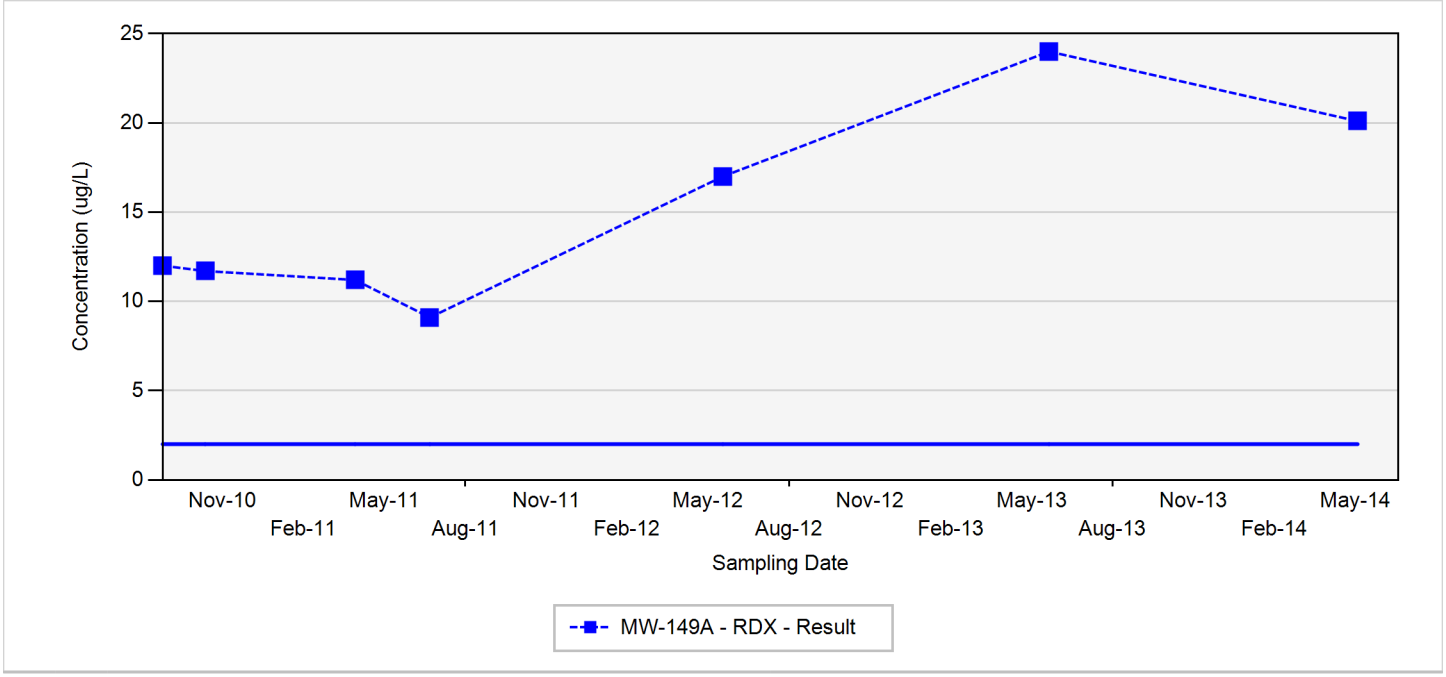
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

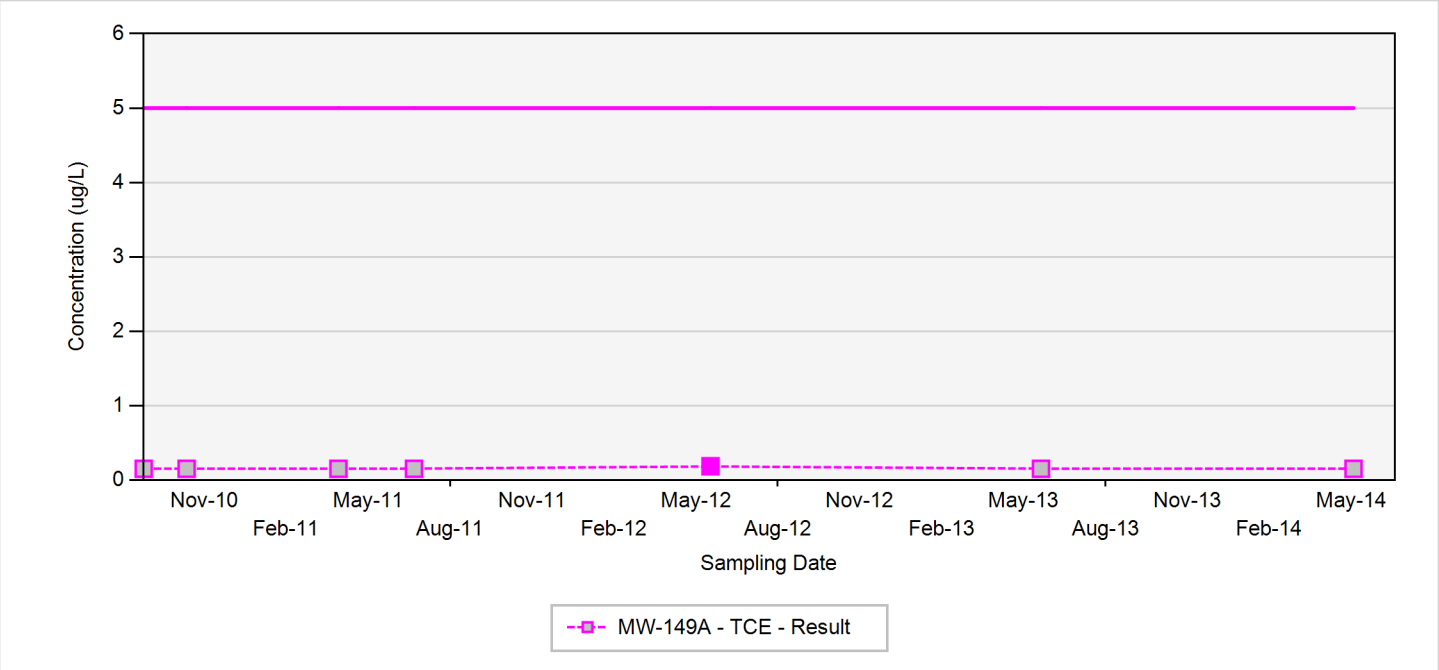
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-149





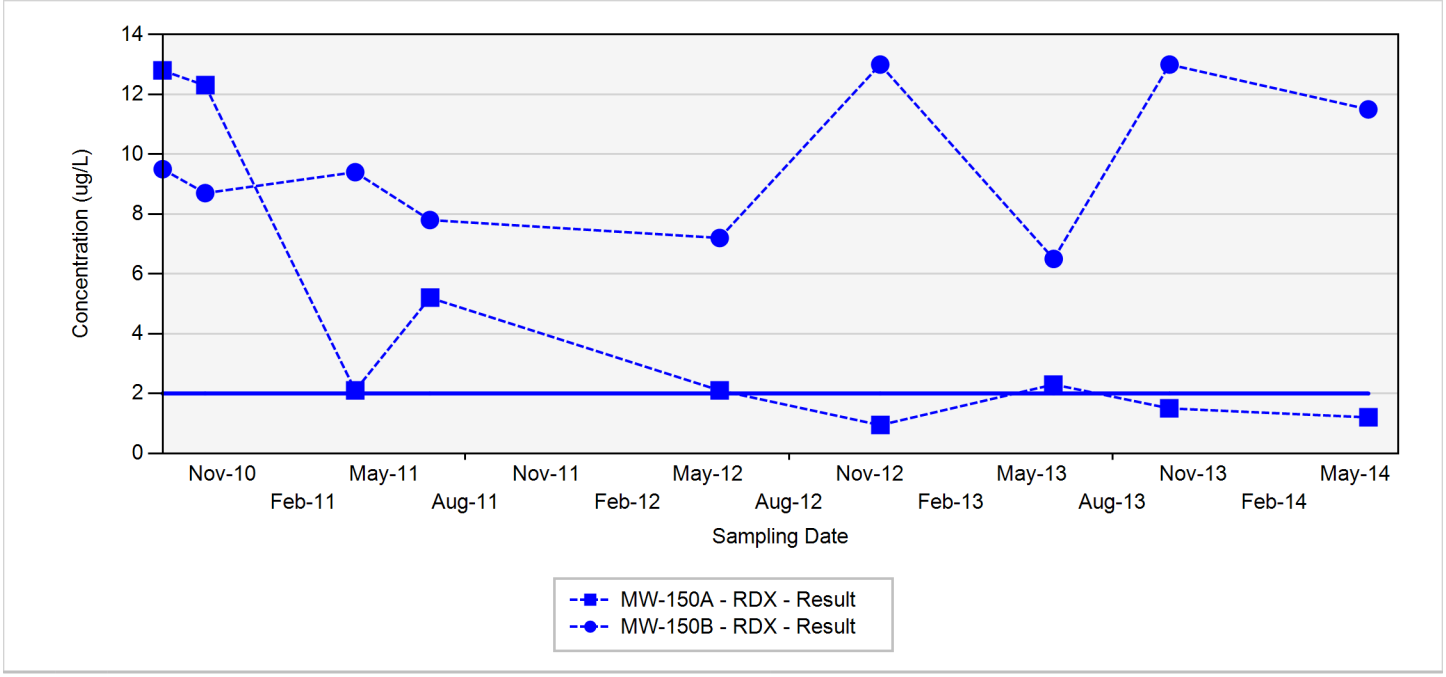
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

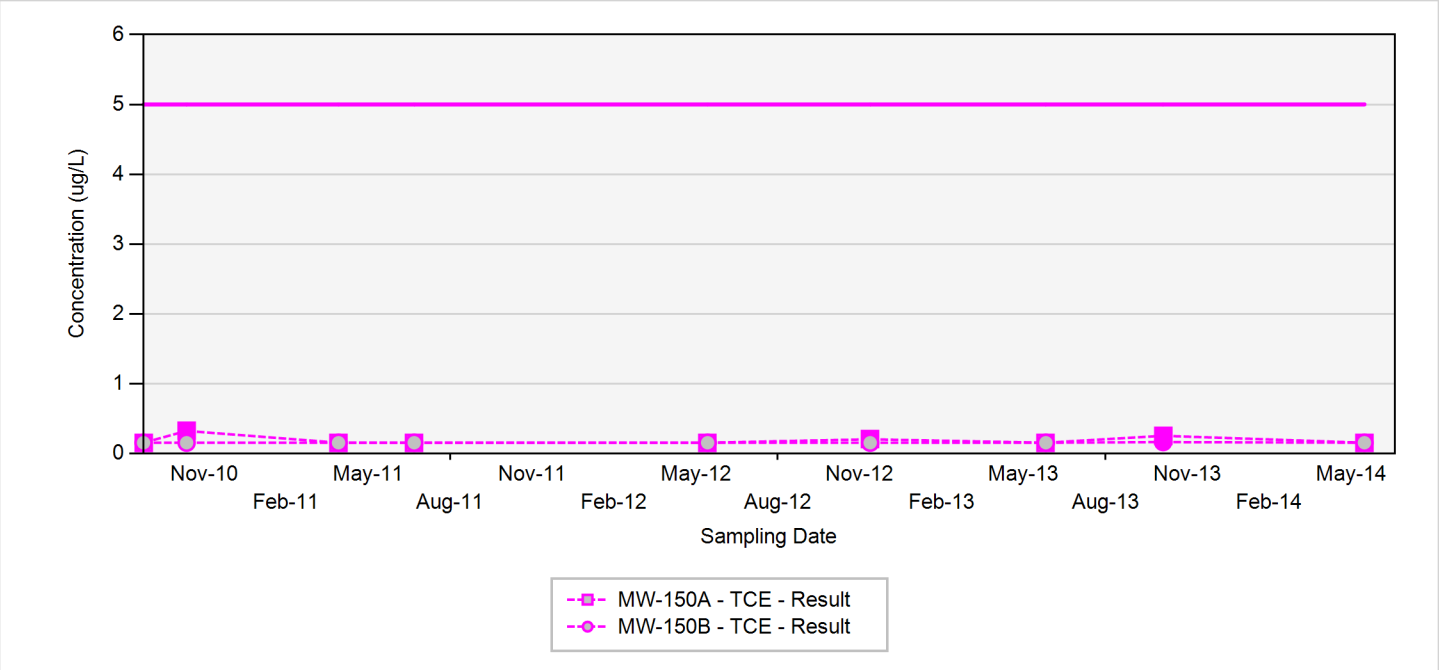
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-150





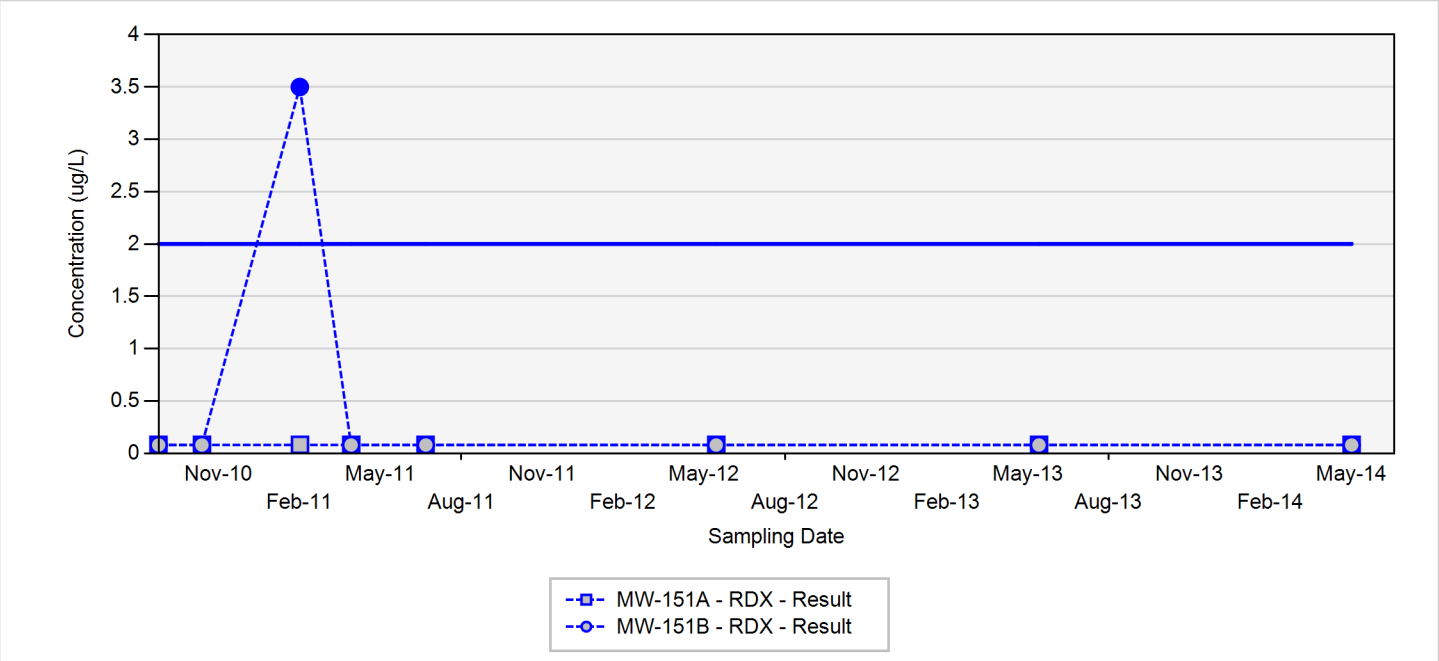
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

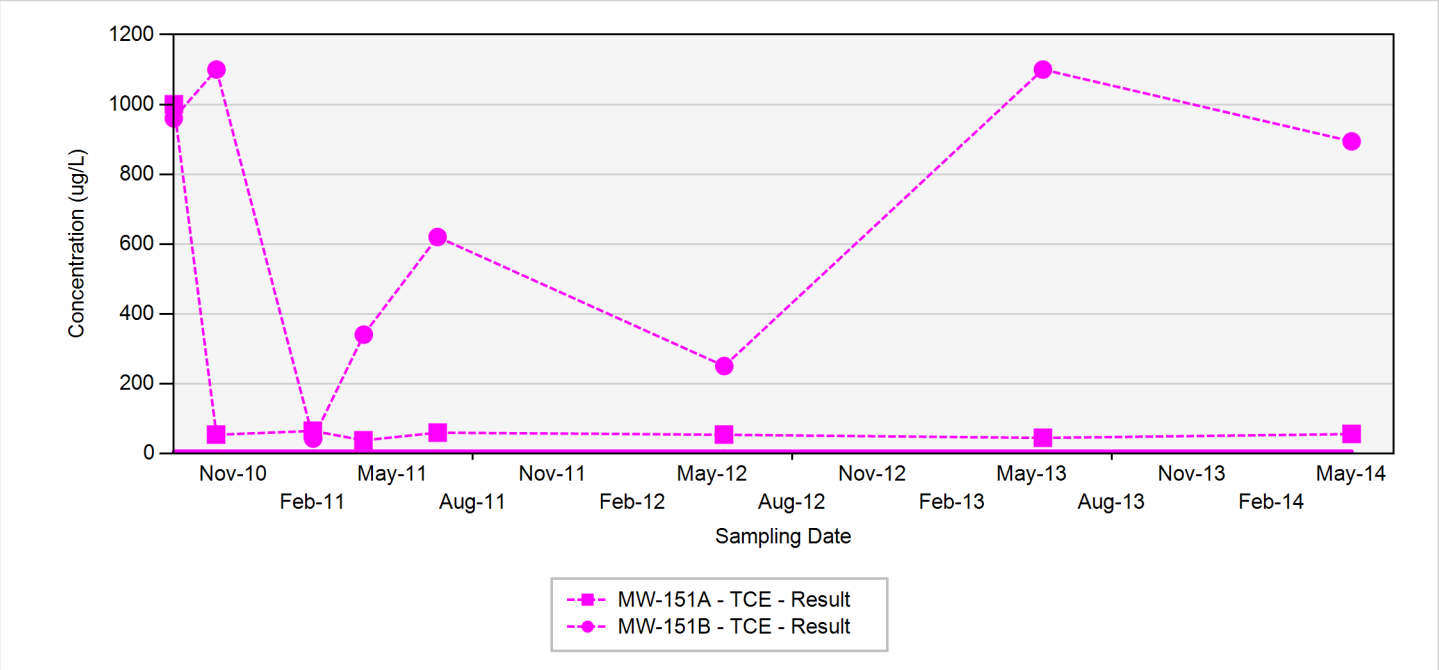
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-151





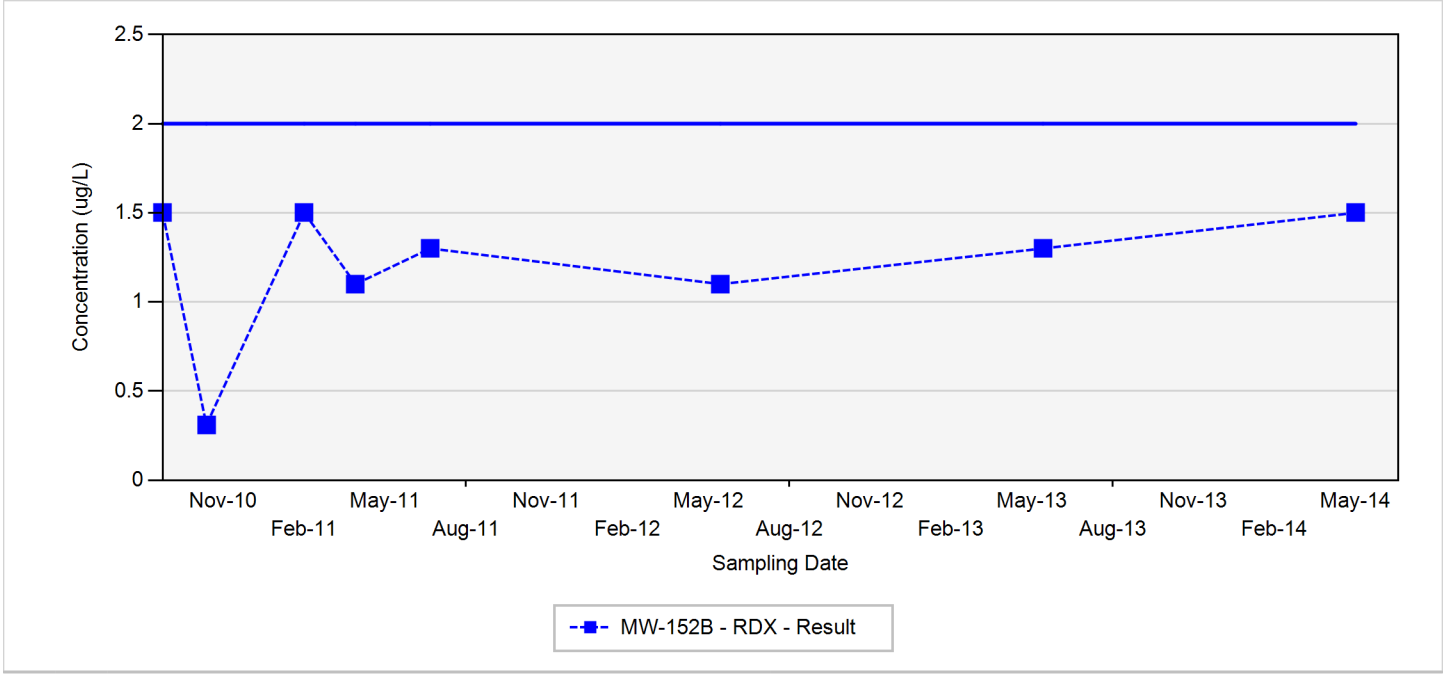
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

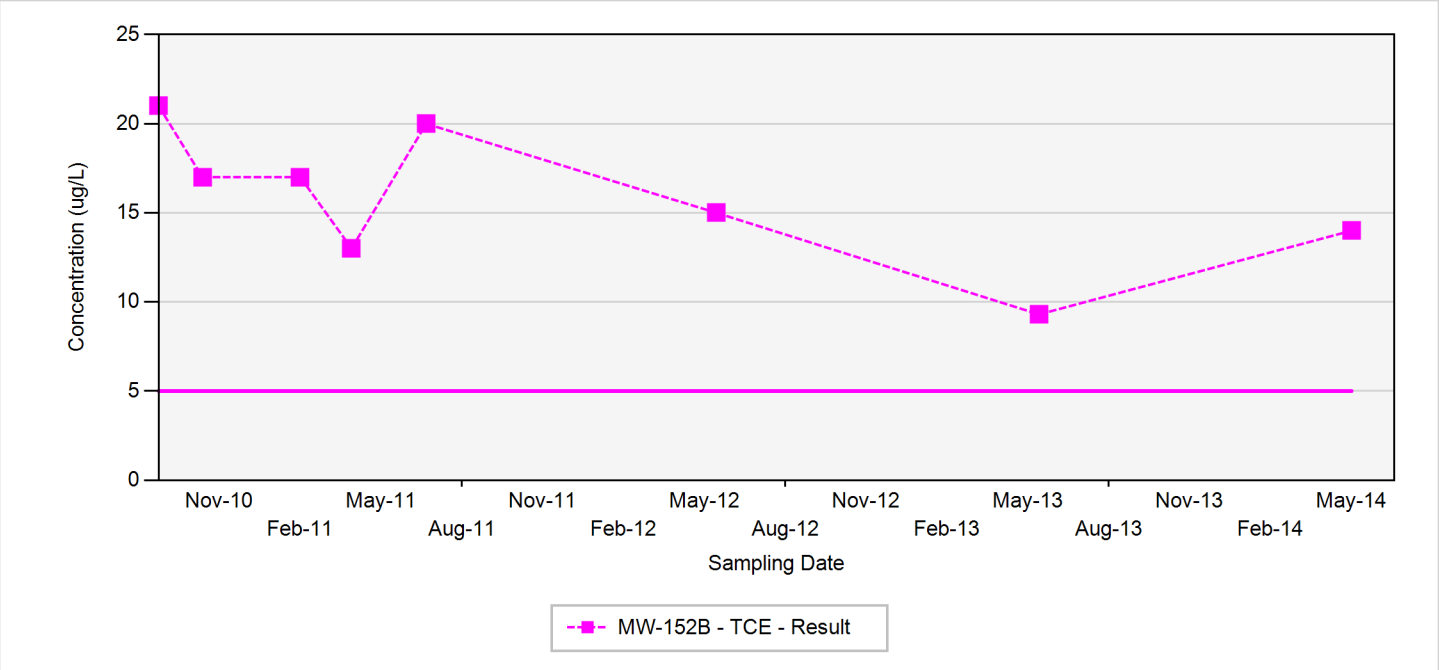
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-152





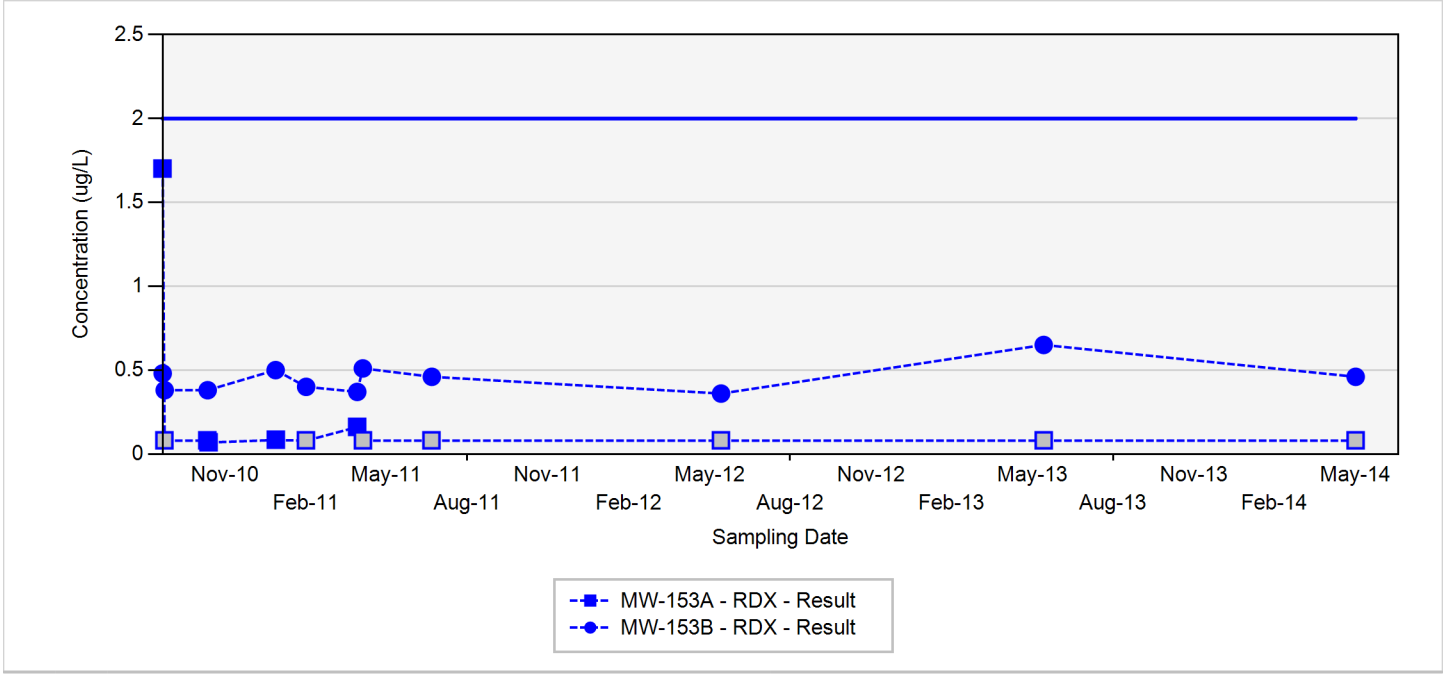
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

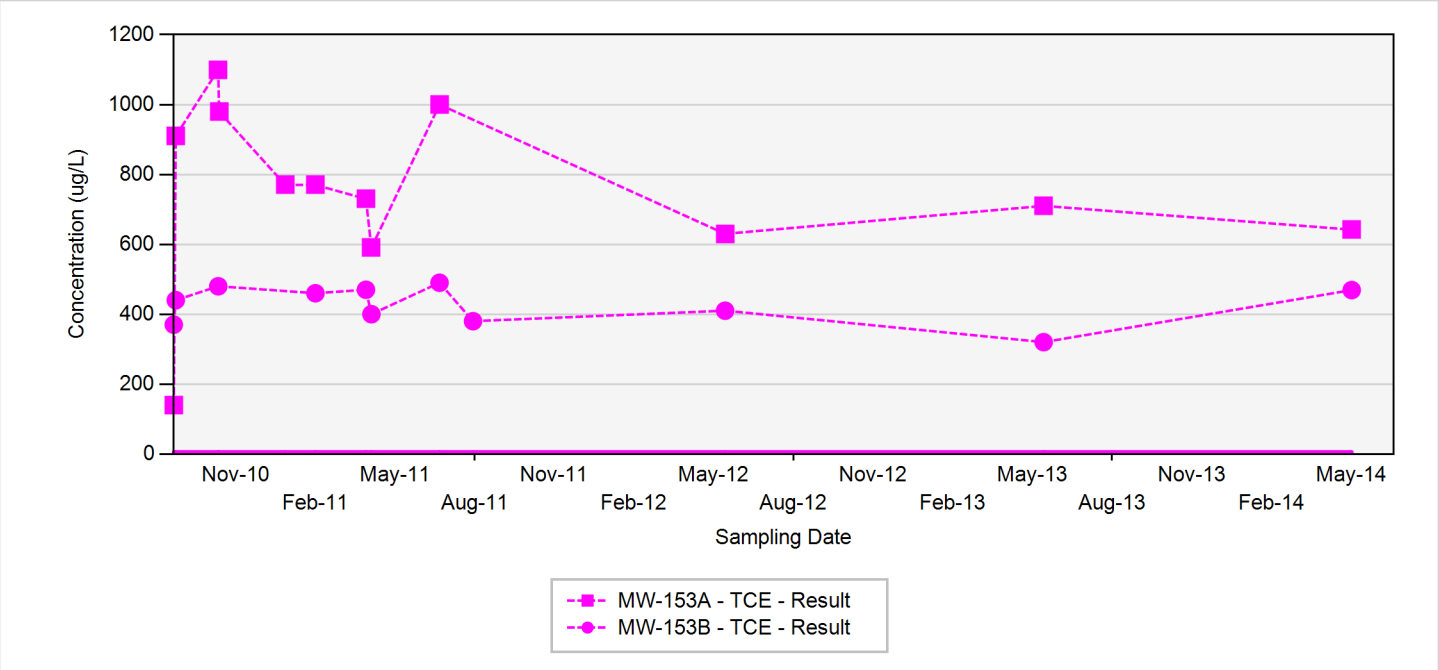
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-153





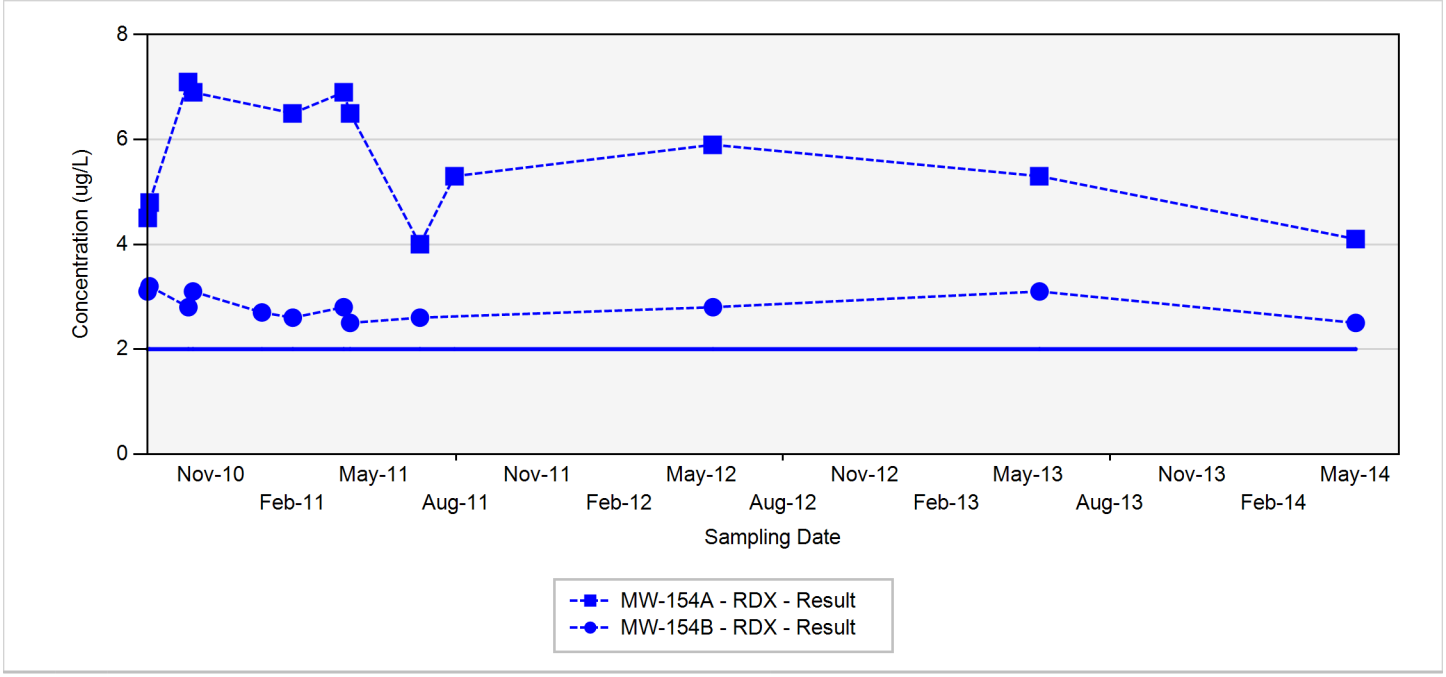
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

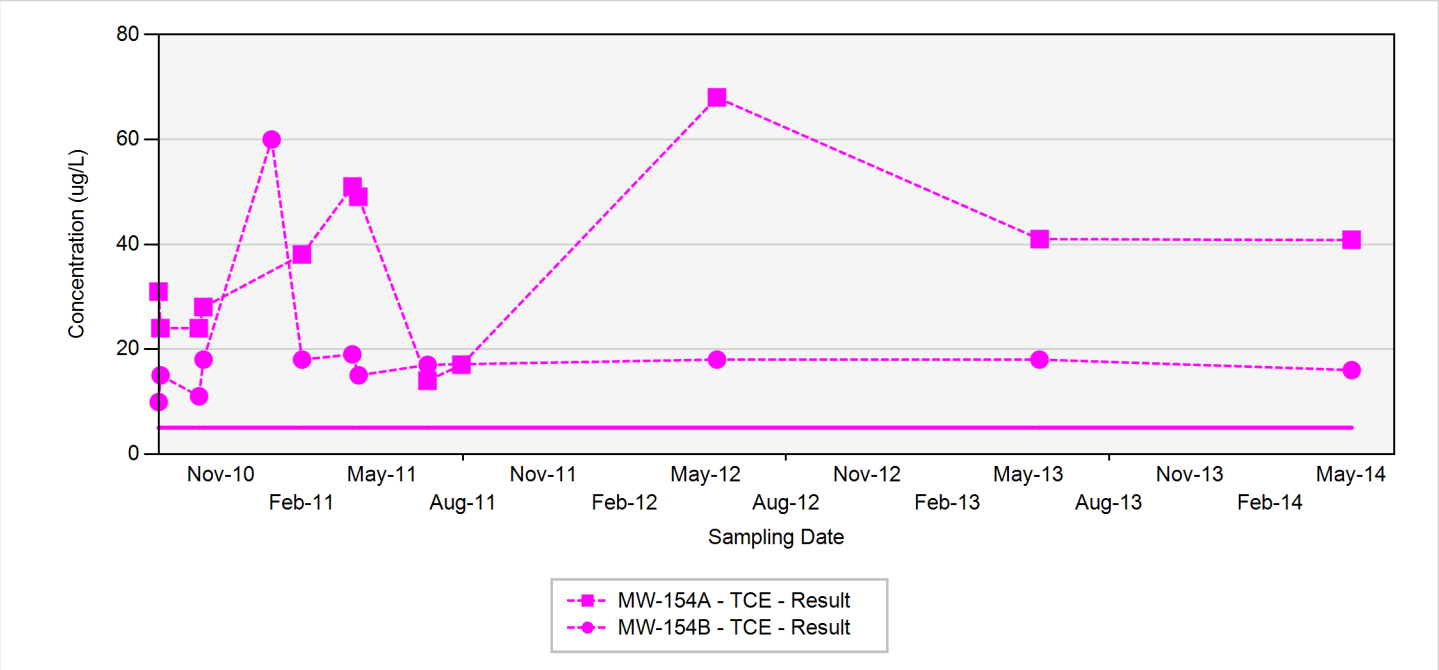
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-154





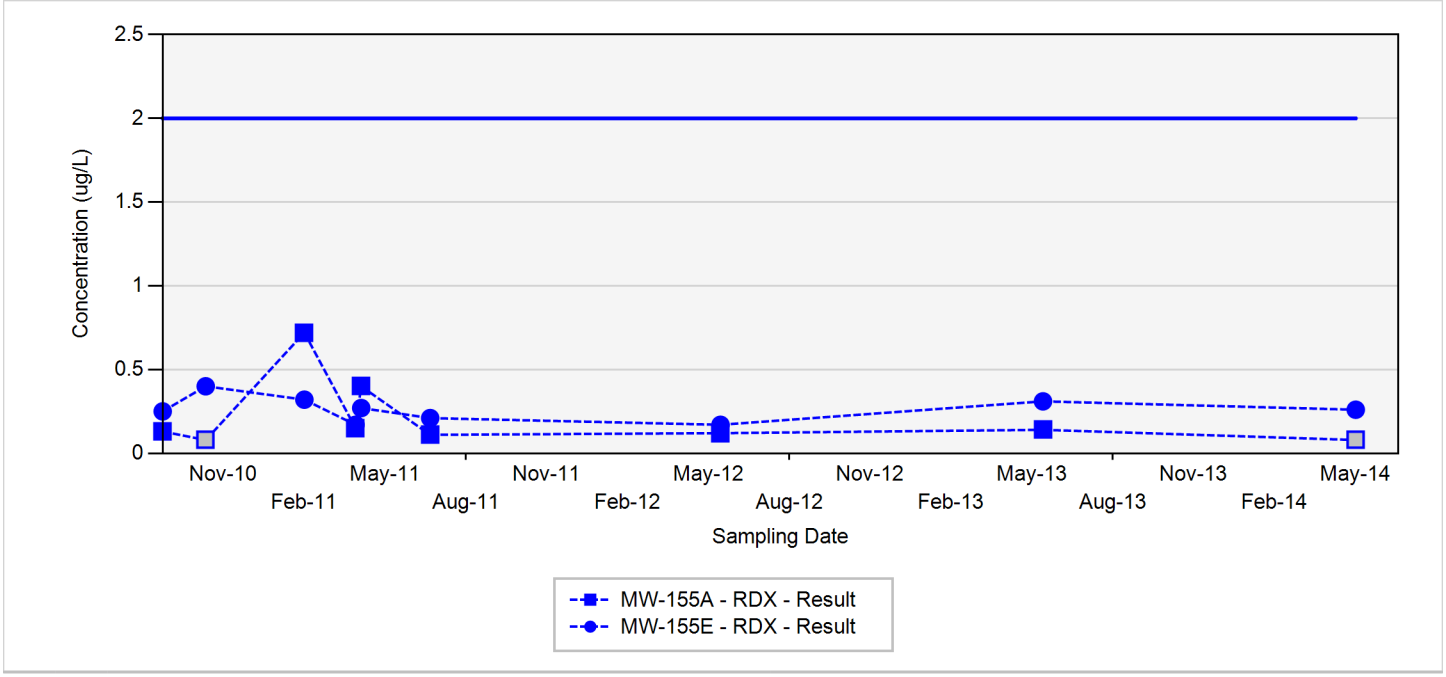
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

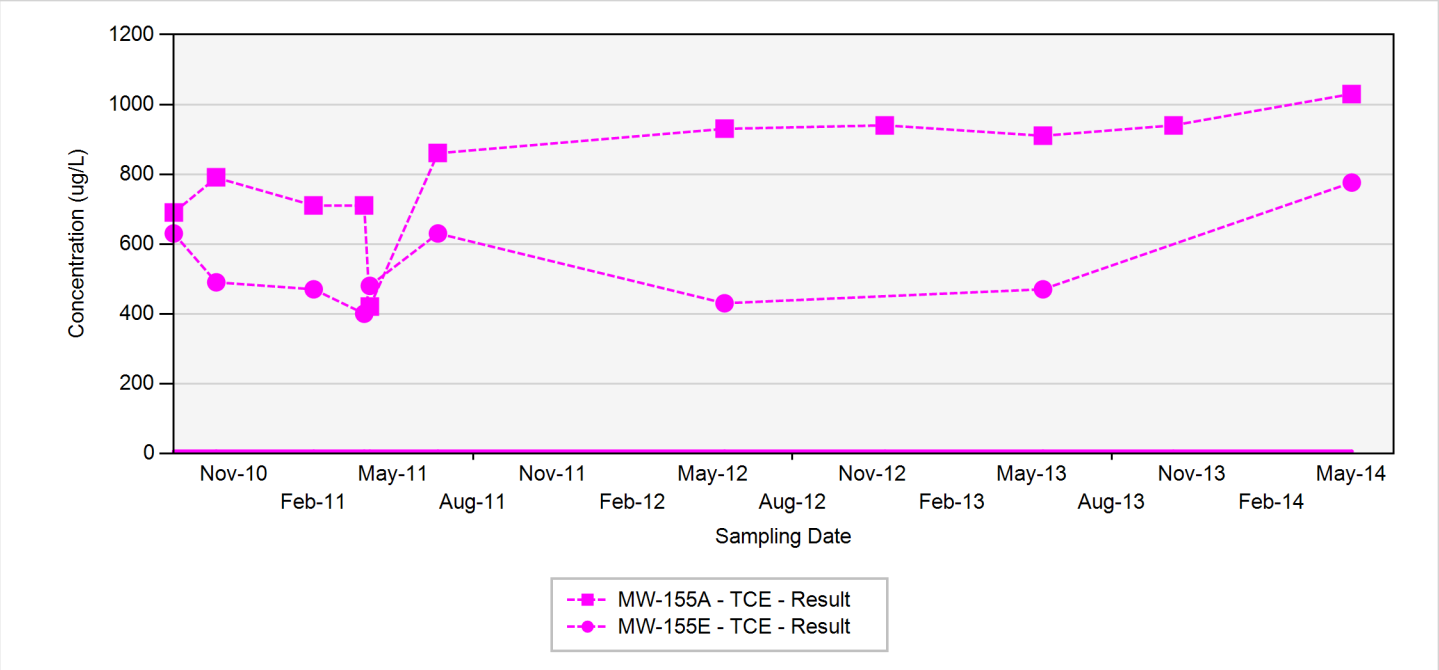
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-155





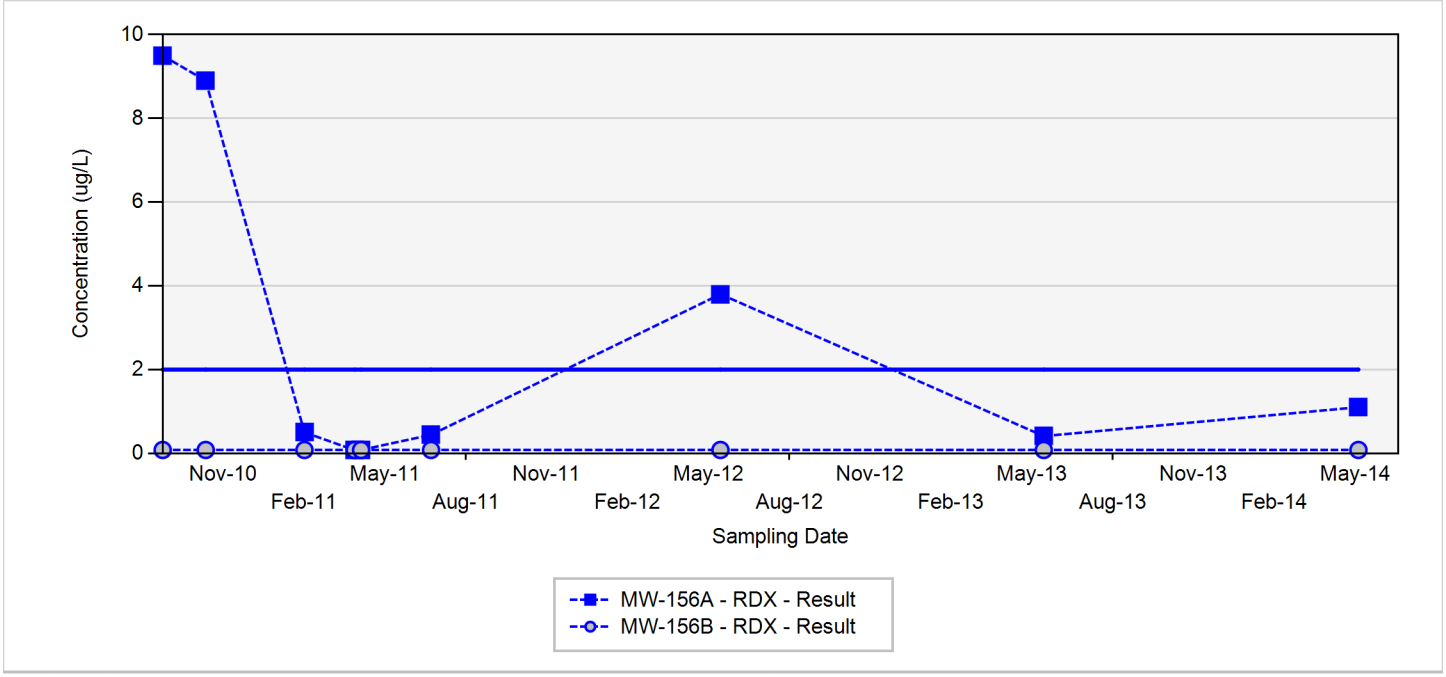
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

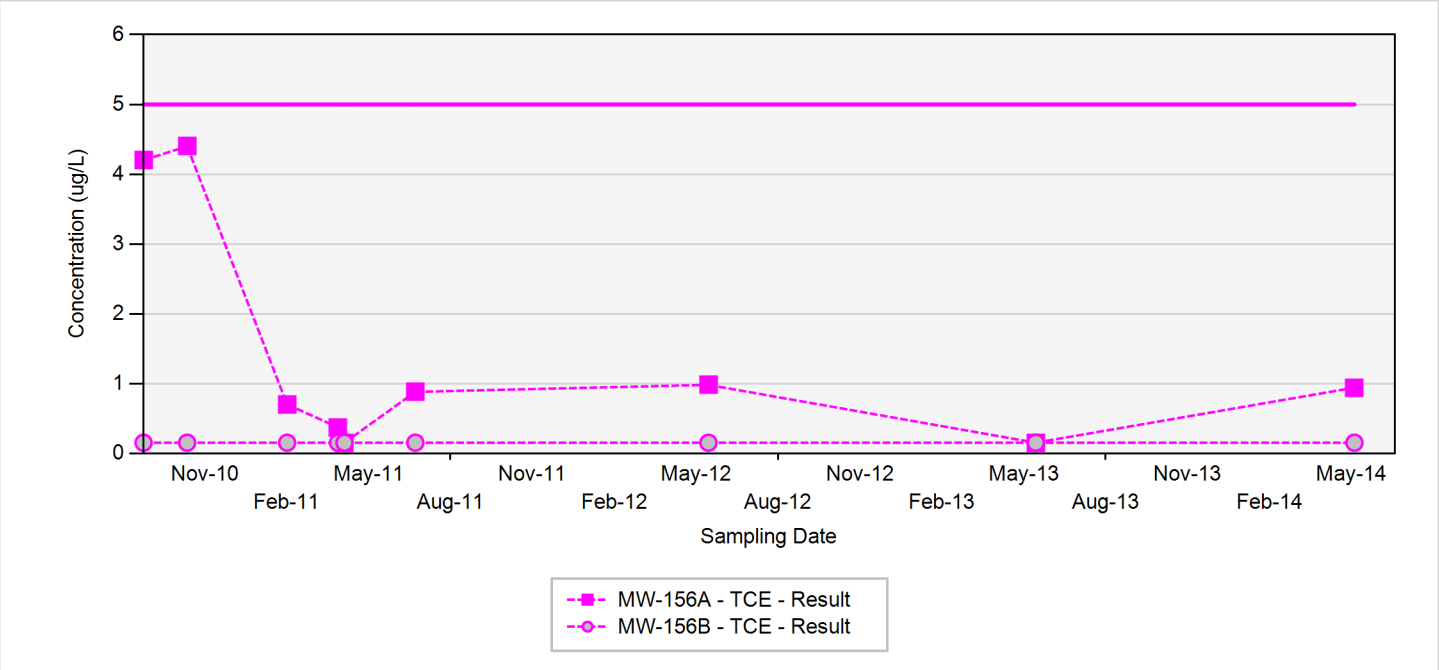
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-156





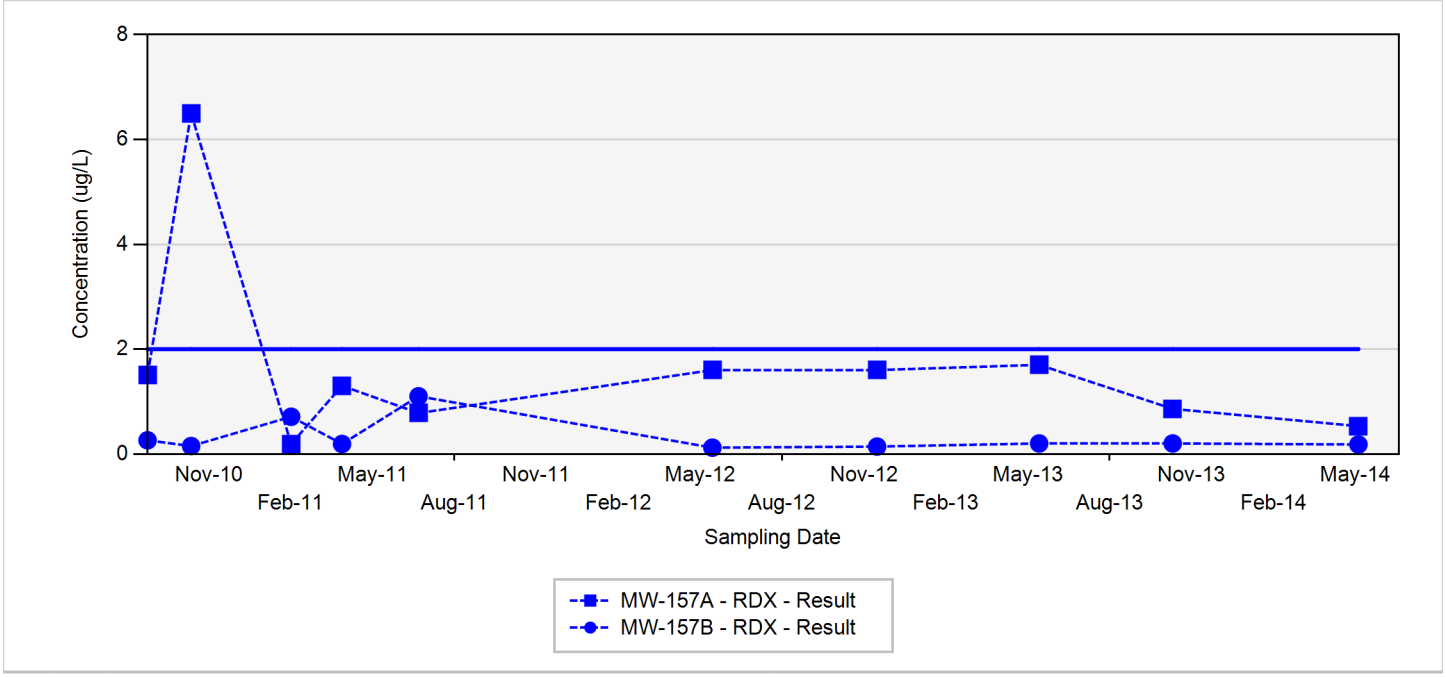
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

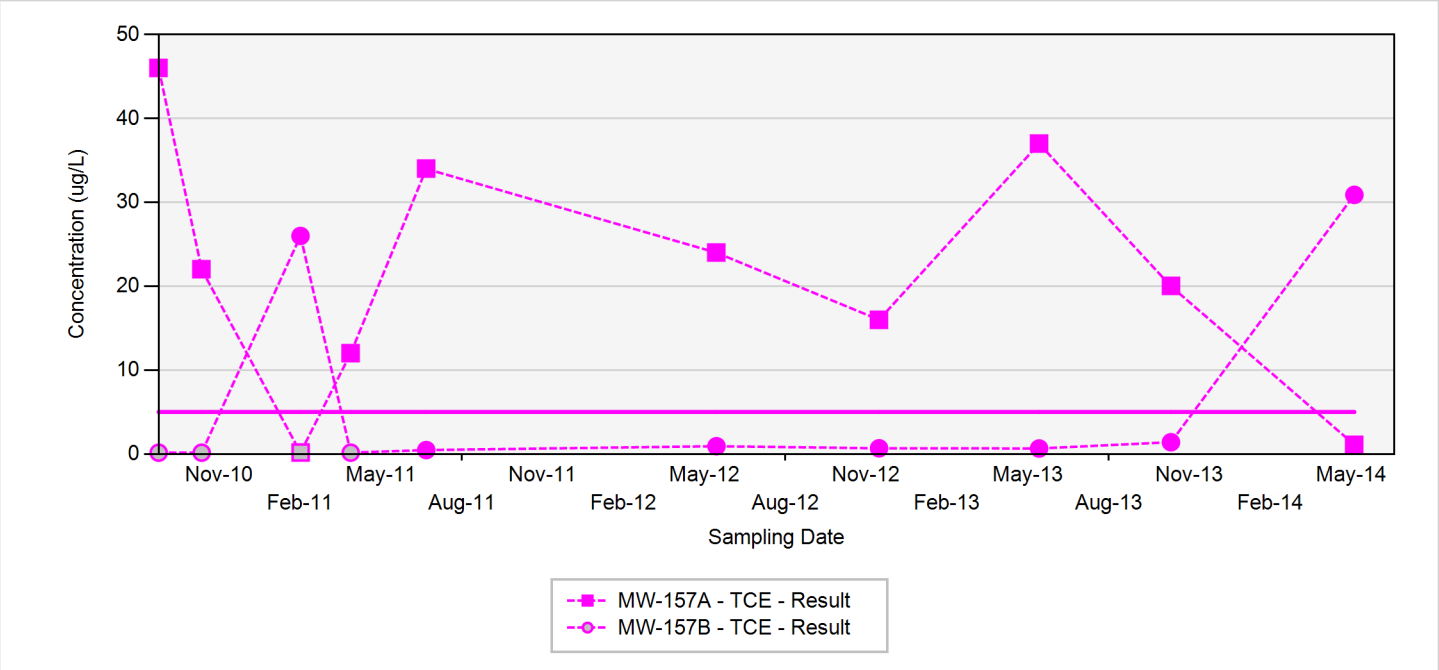
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-157





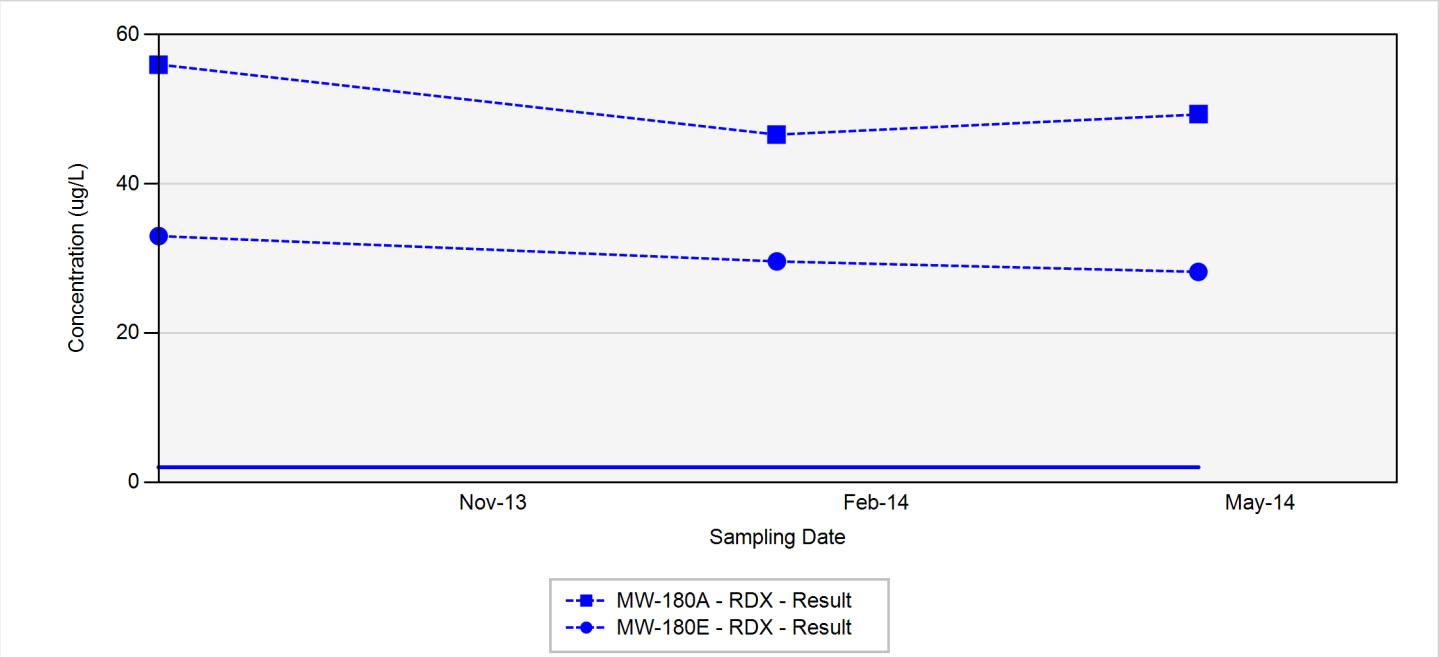
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-180



No Data Available

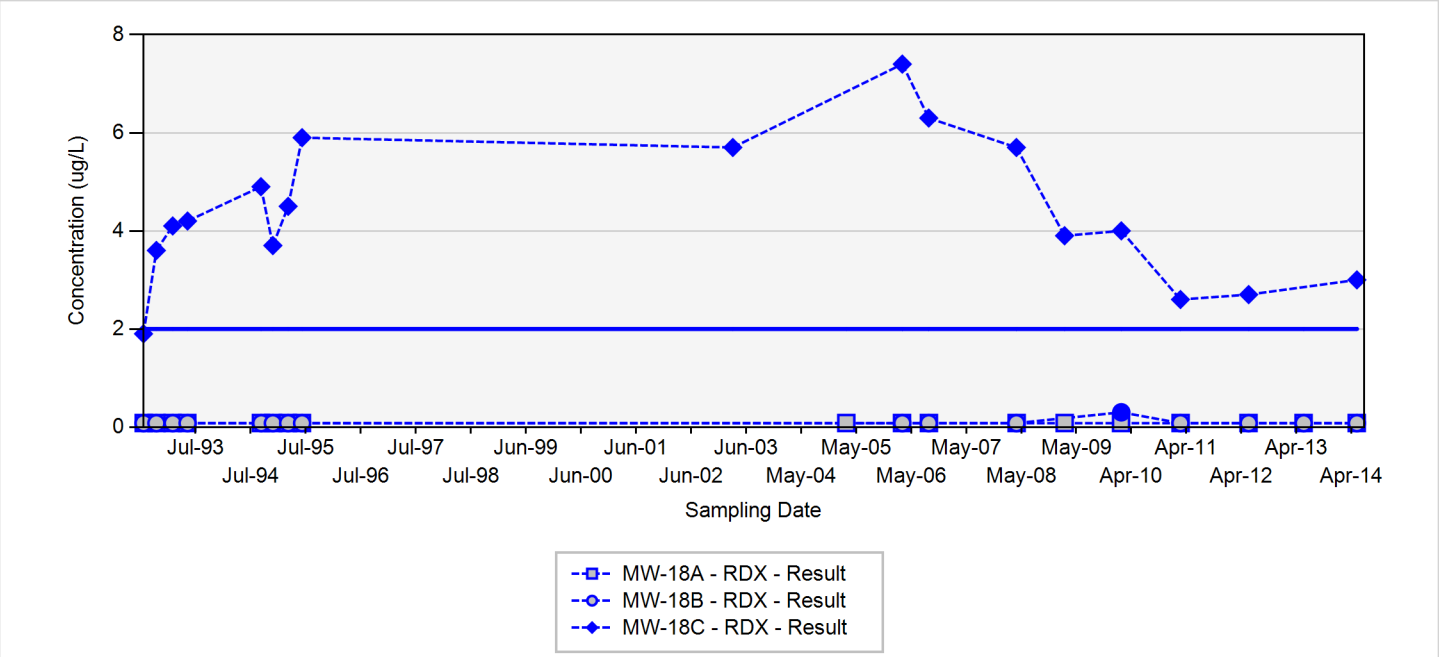
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

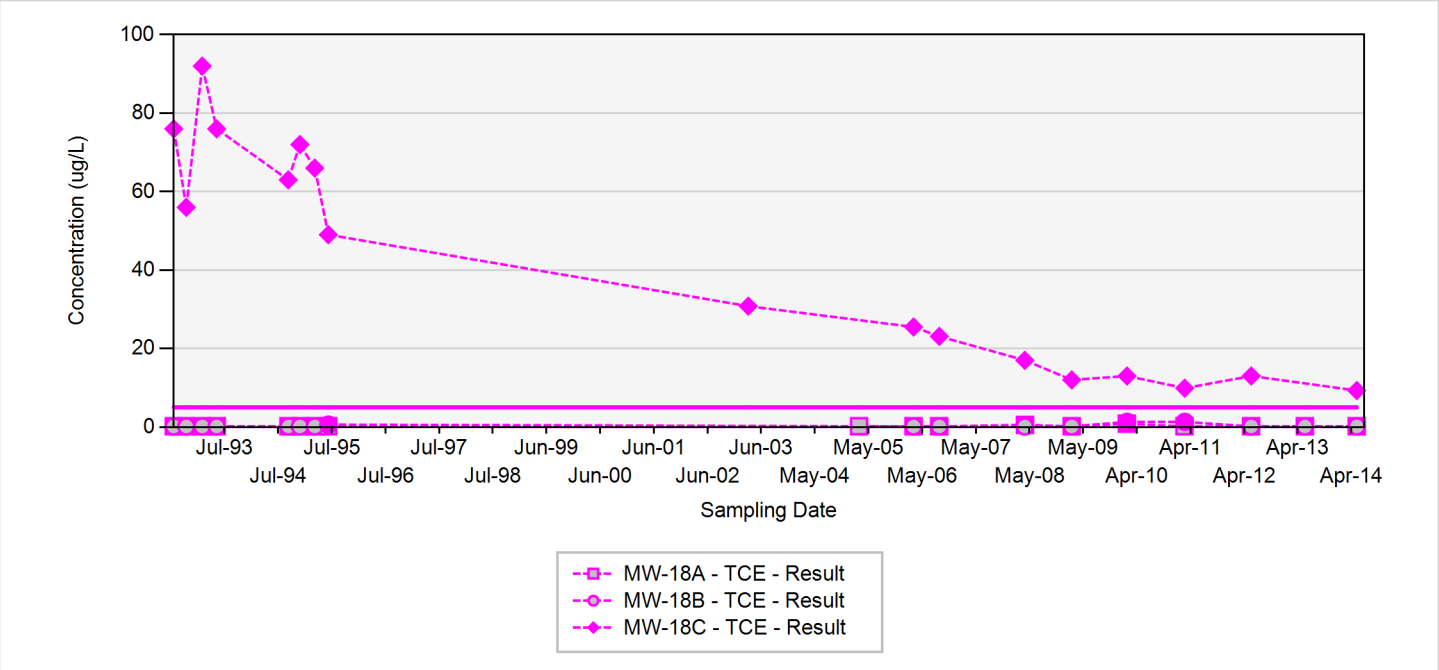
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-18





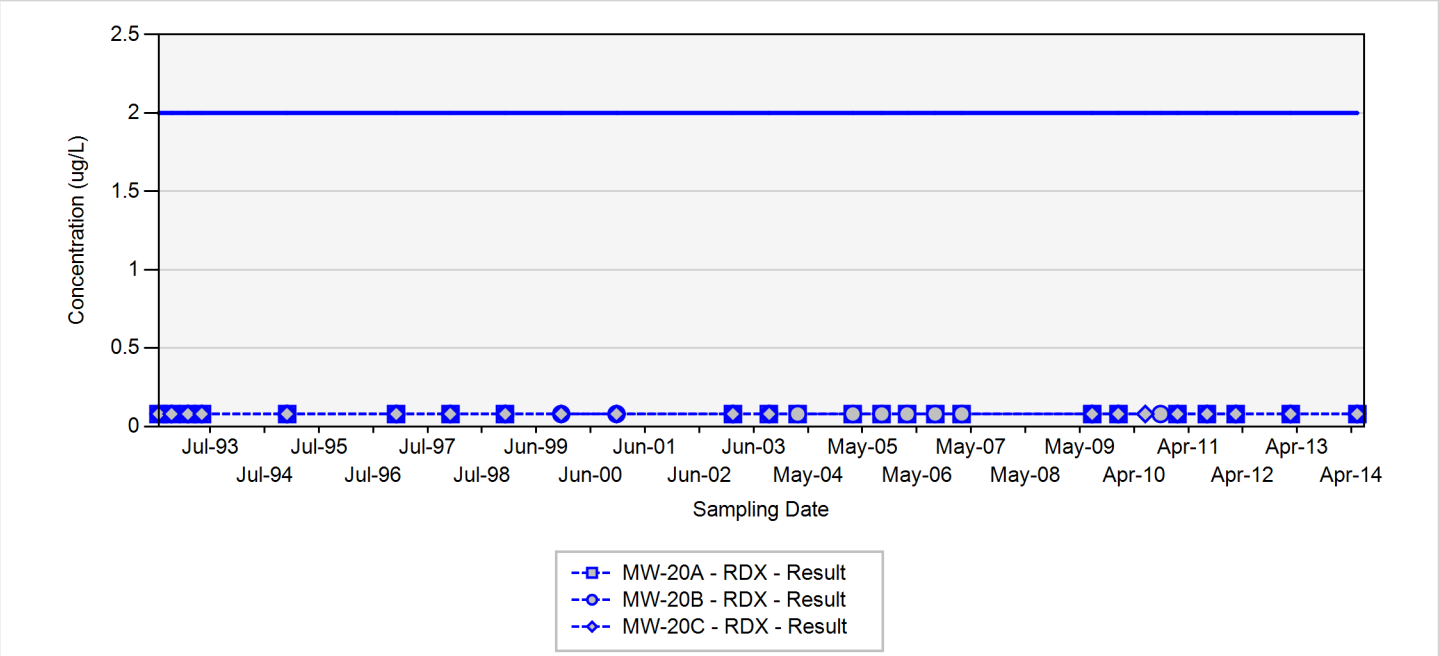
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

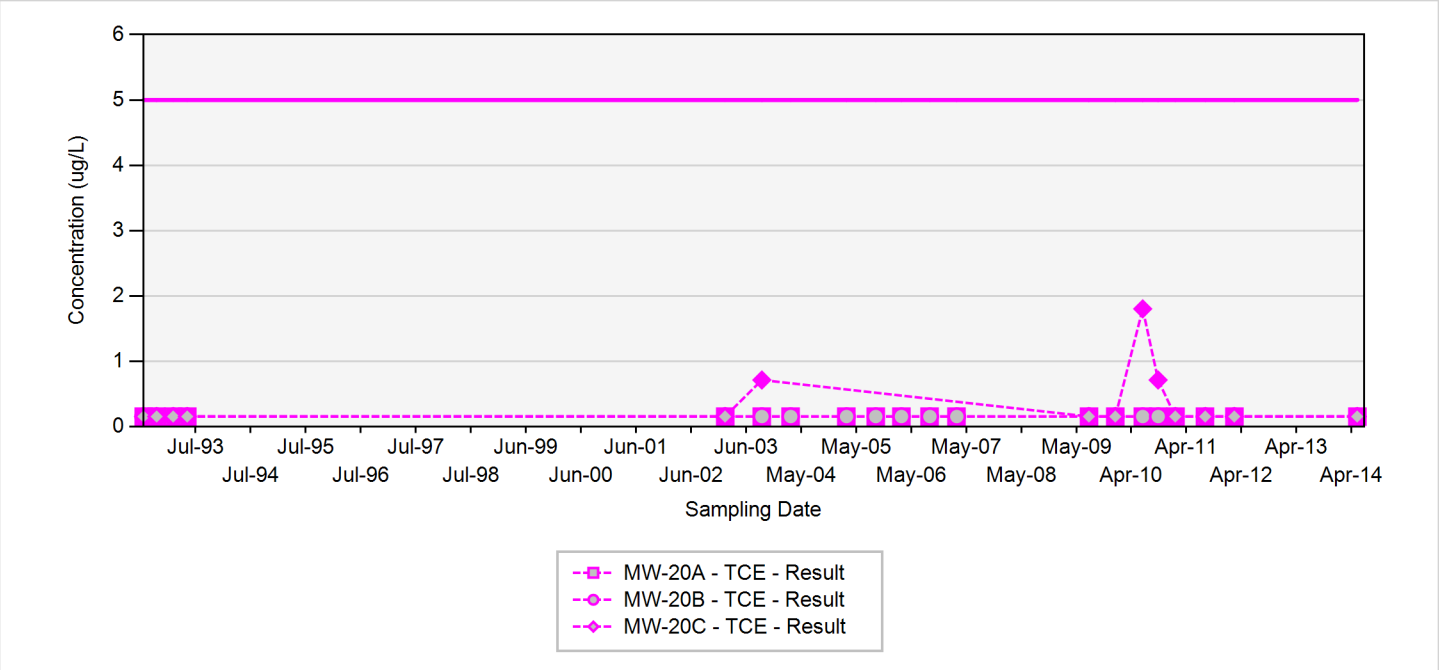
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-20





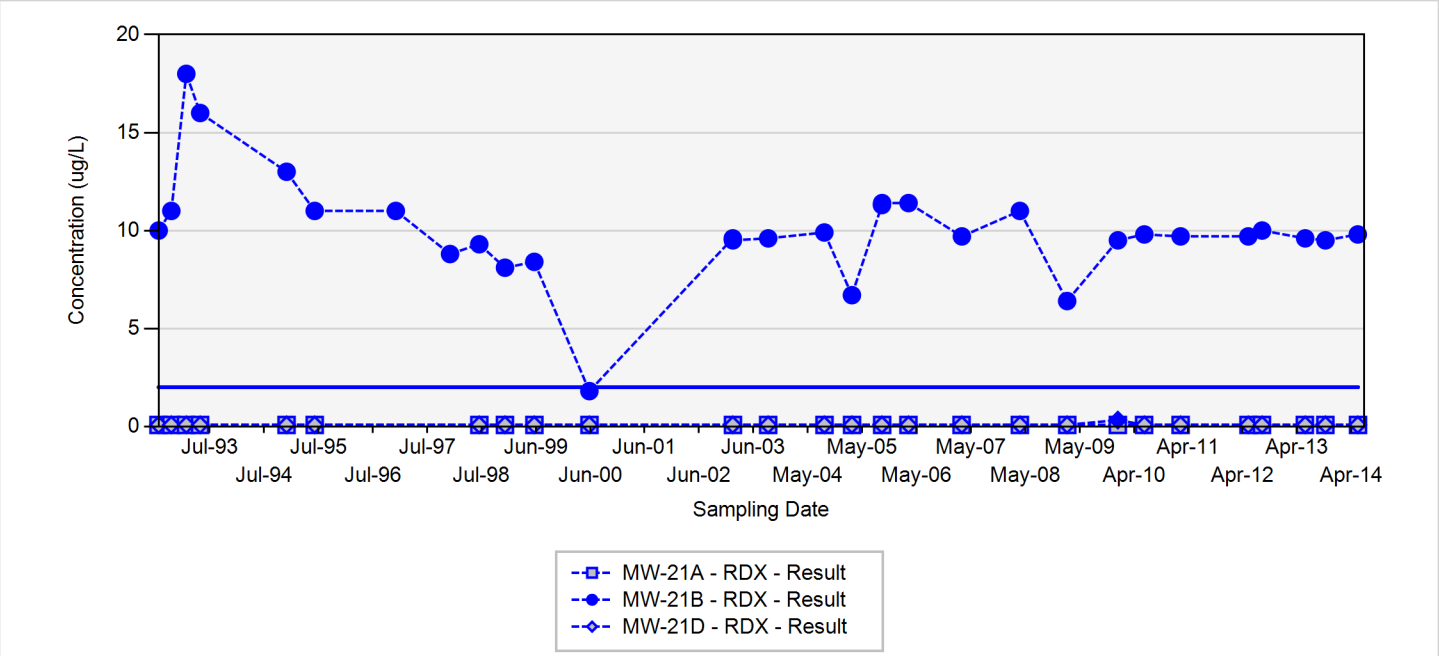
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

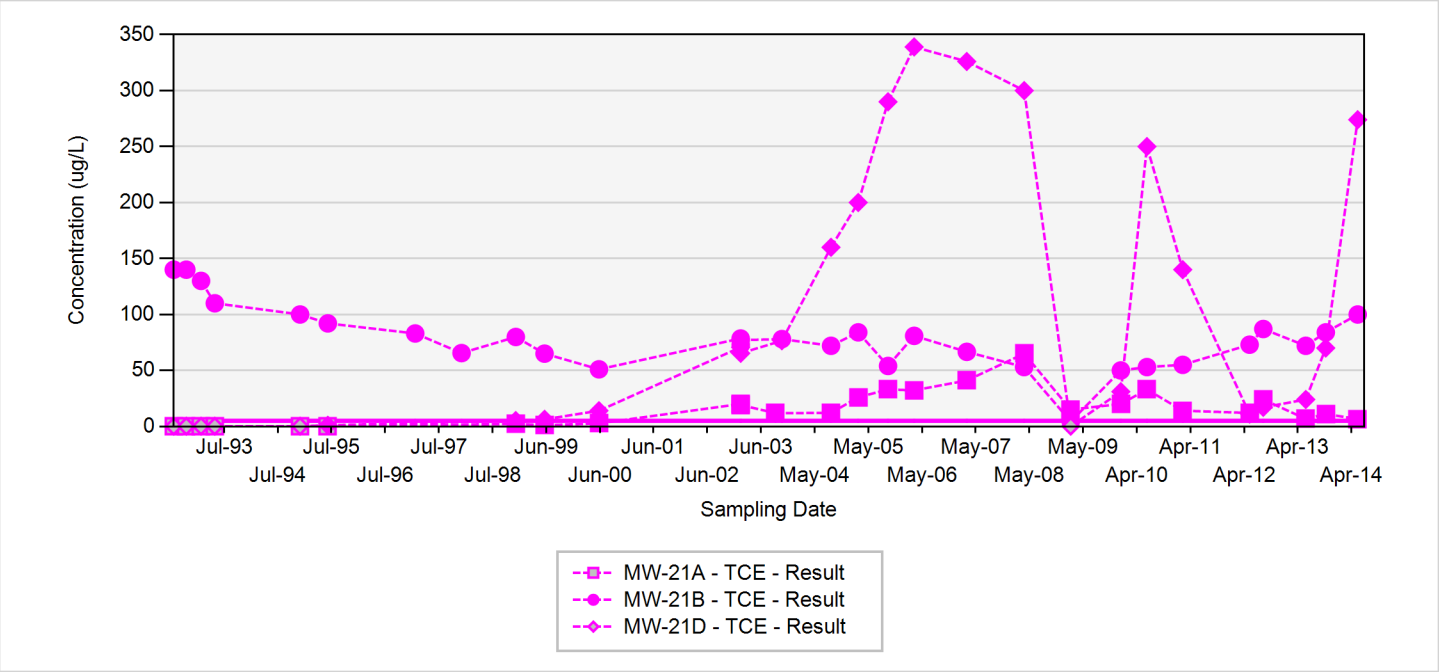
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-21





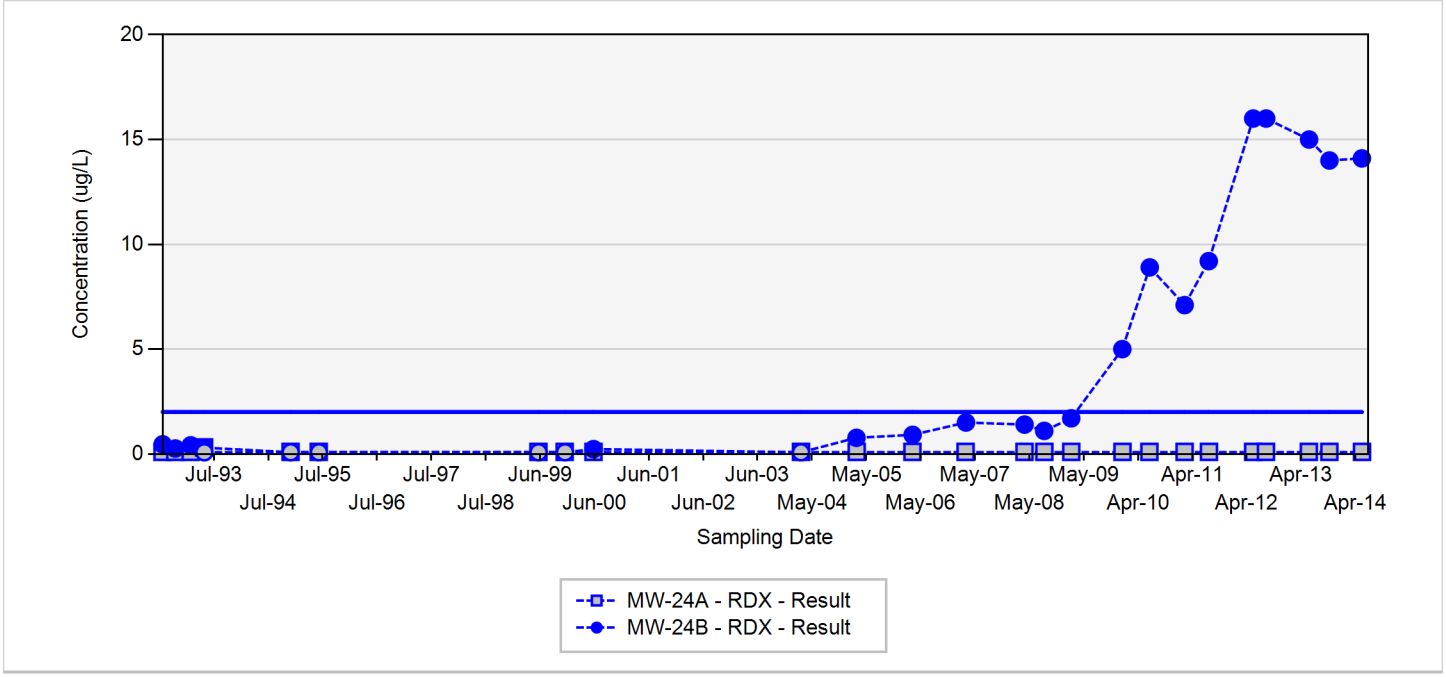
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

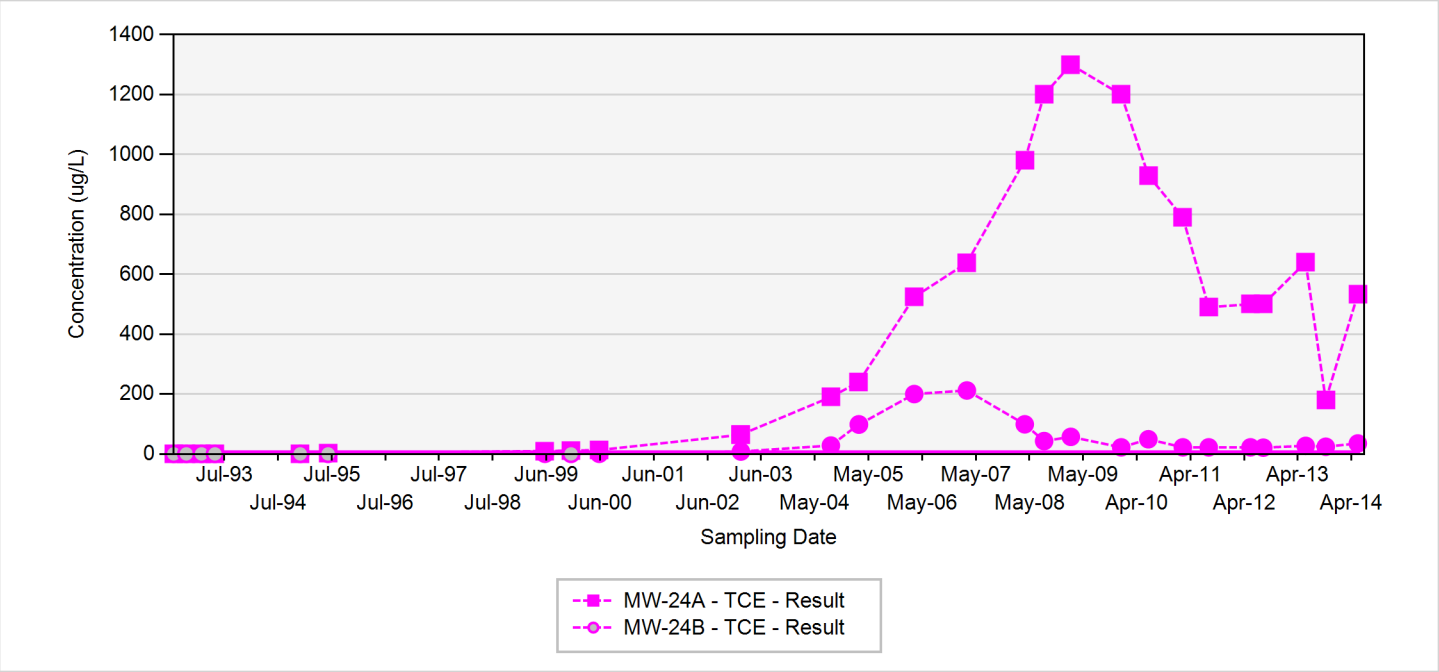
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-24





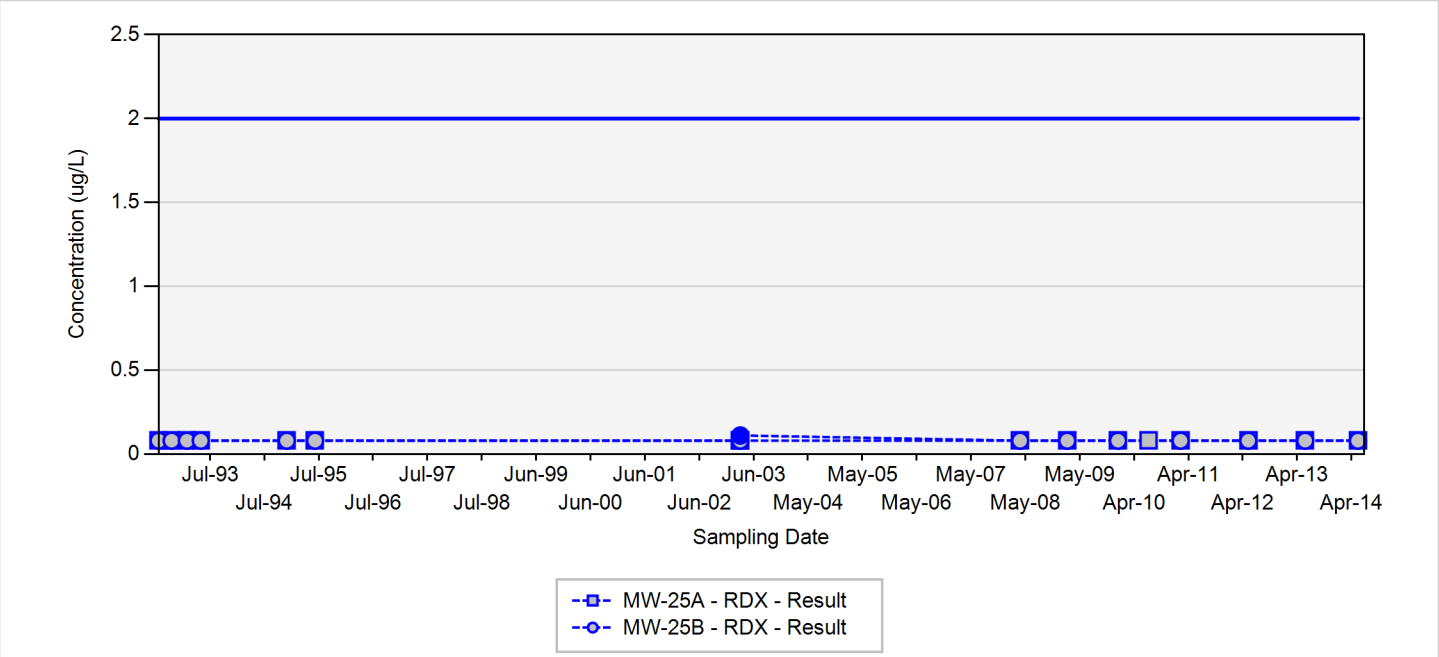
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

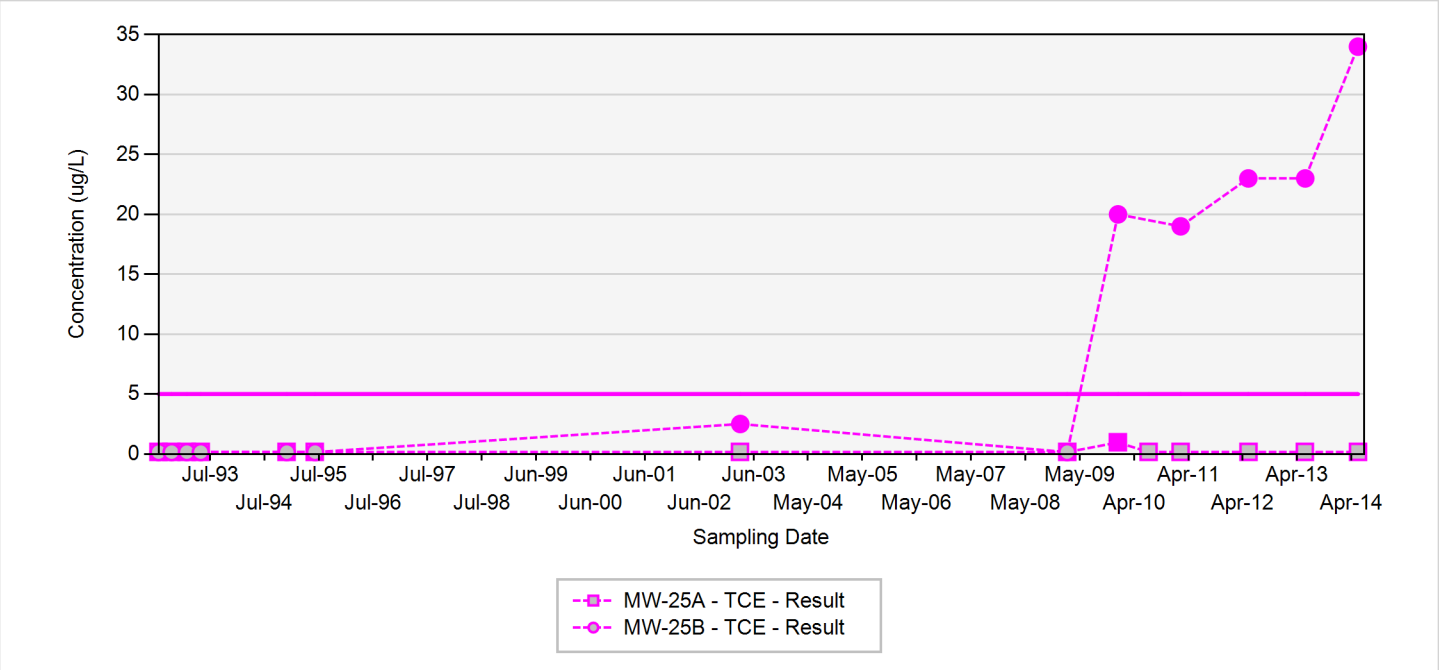
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-25





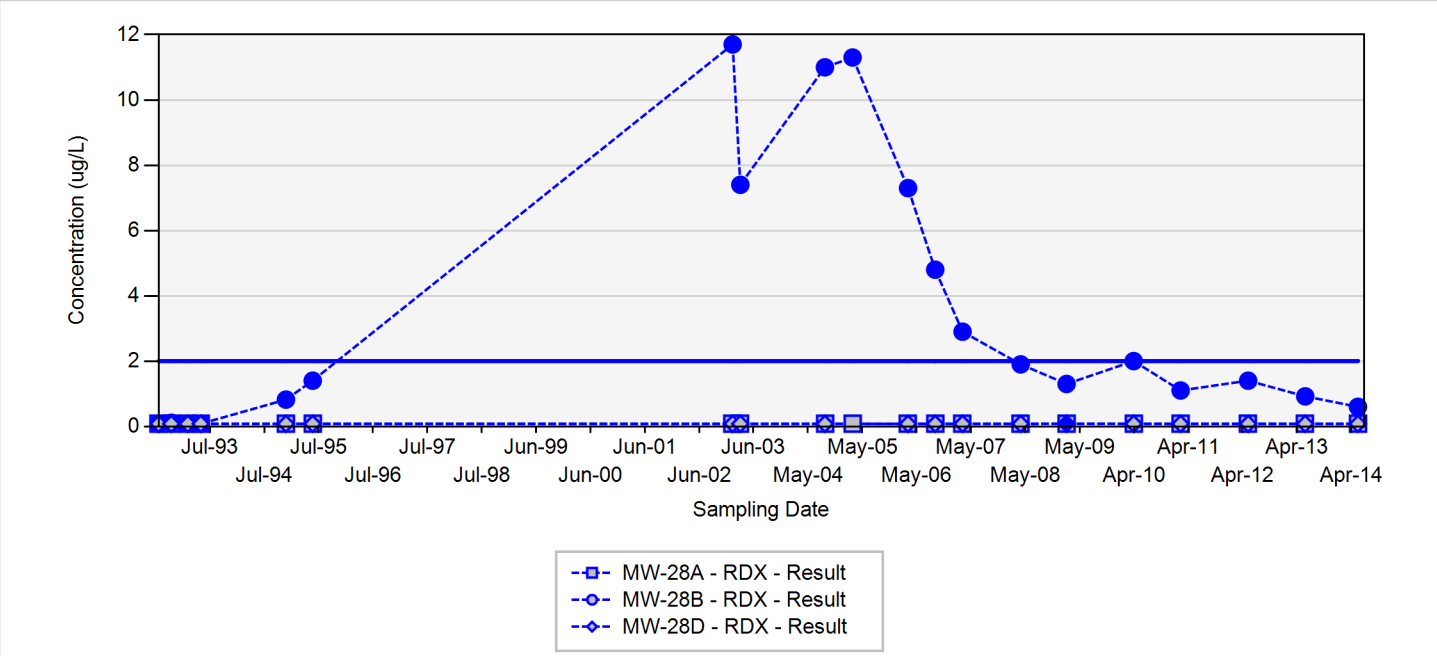
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

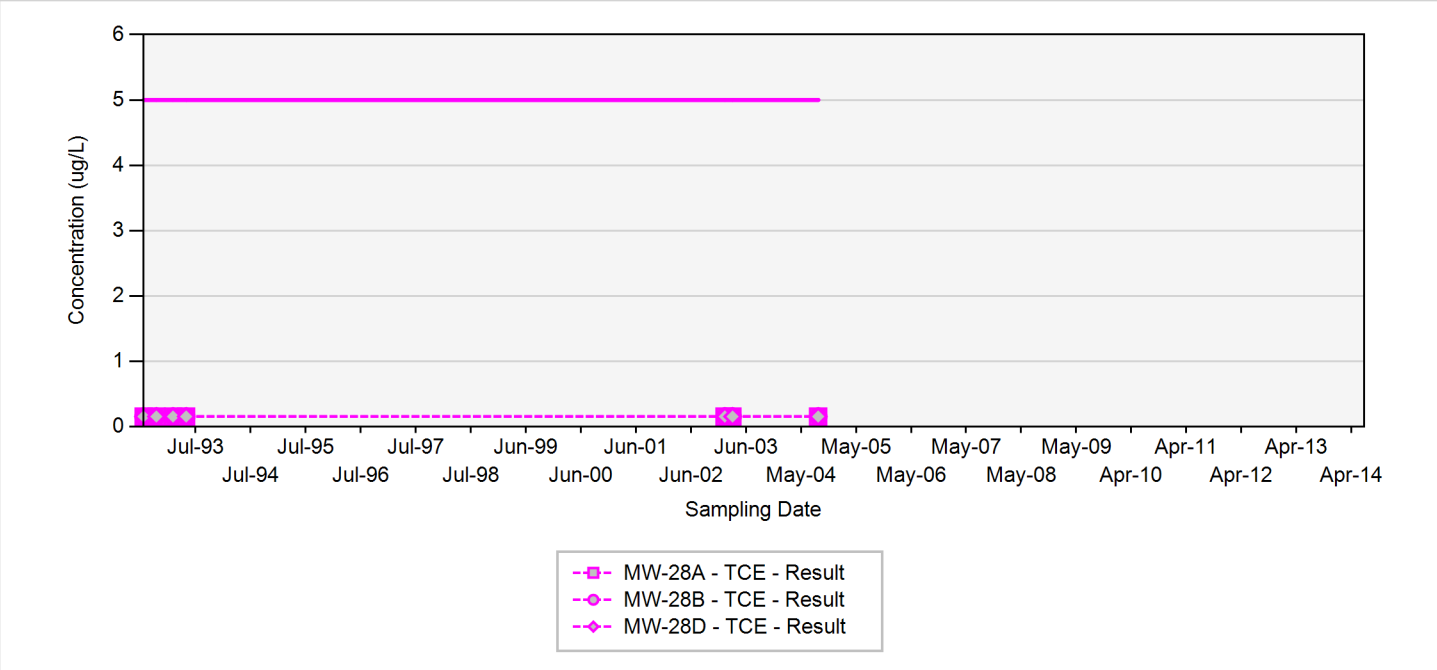
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-28





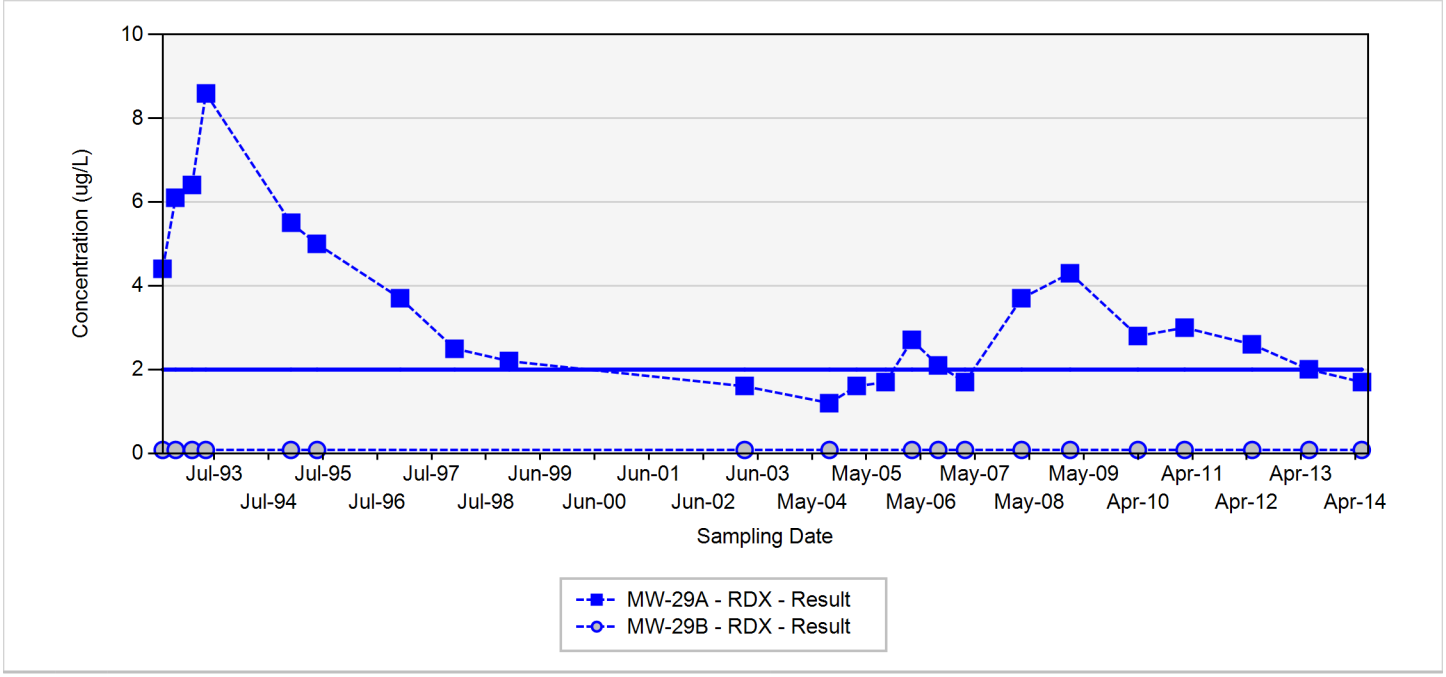
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

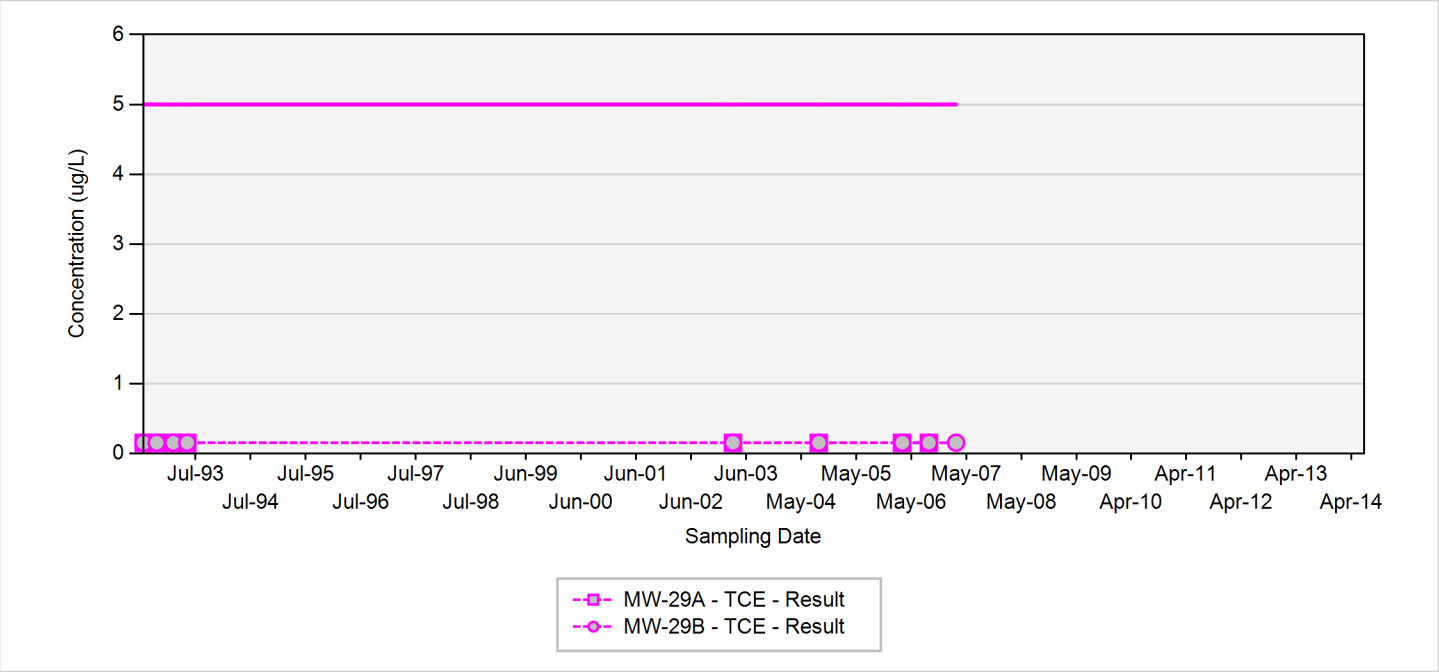
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-29





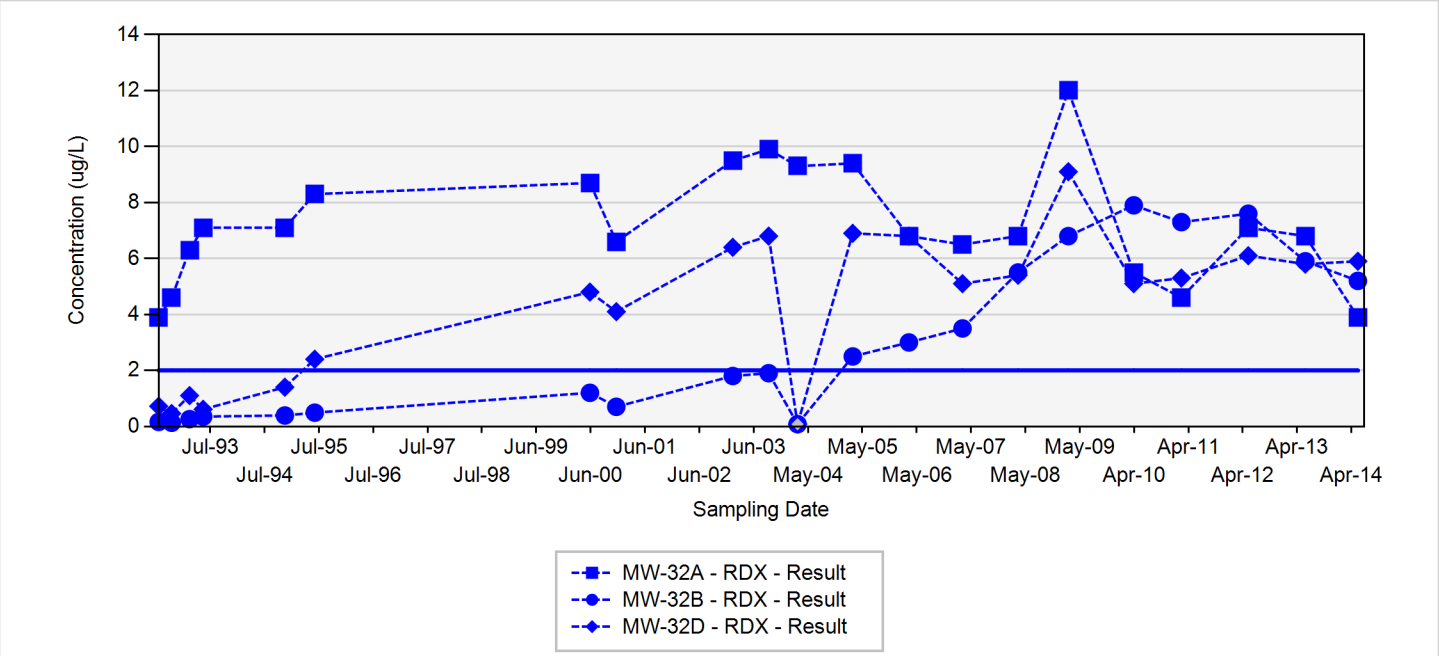
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

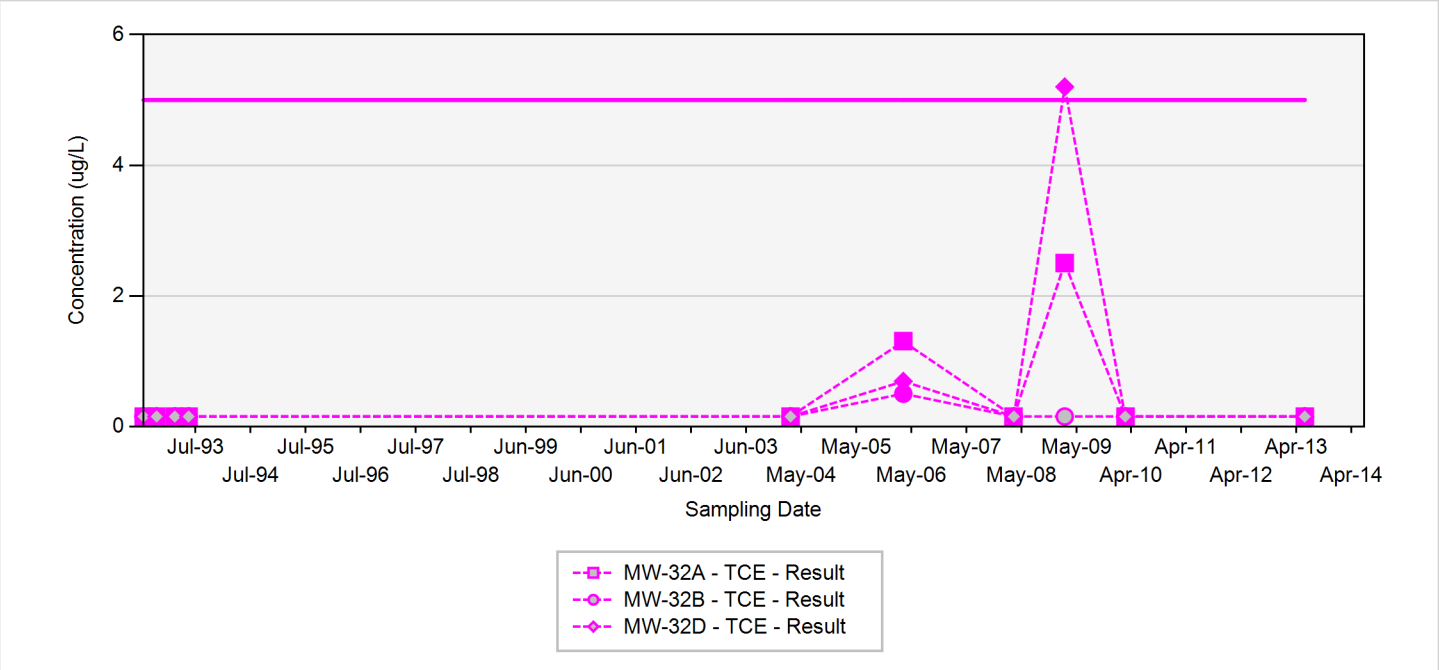
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-32





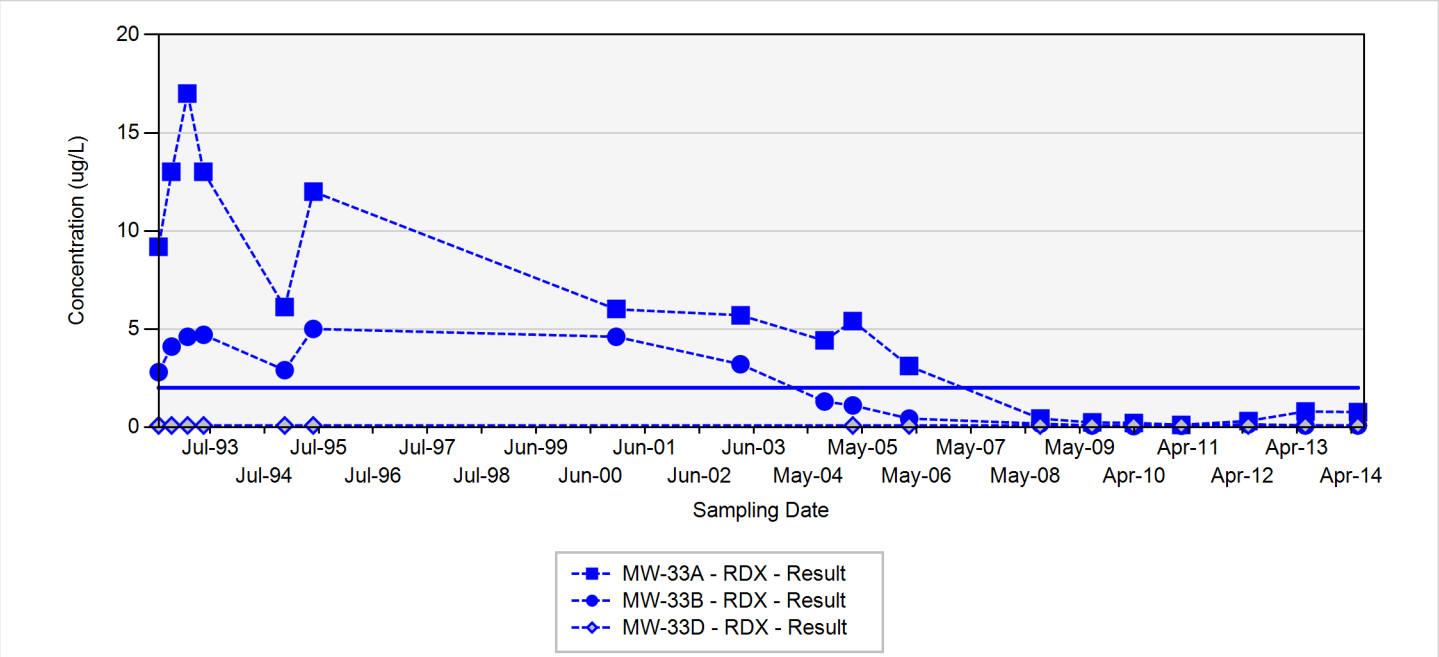
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

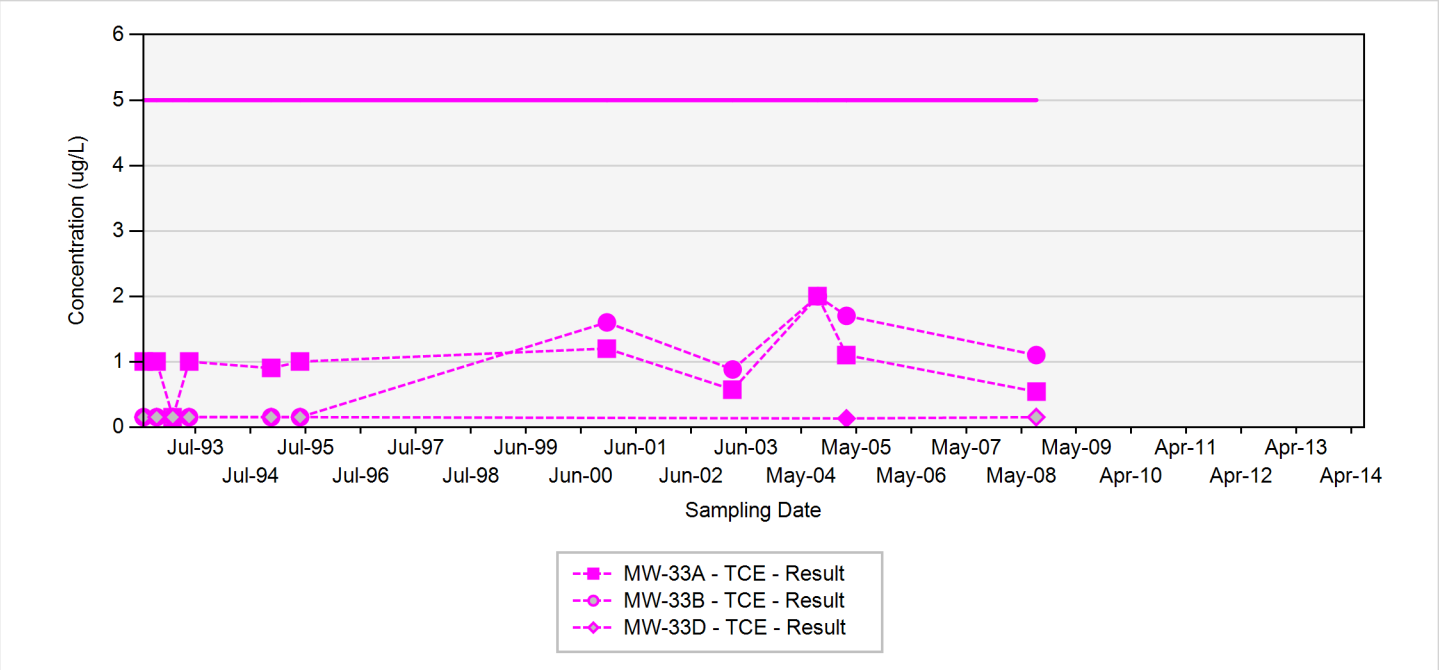
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-33





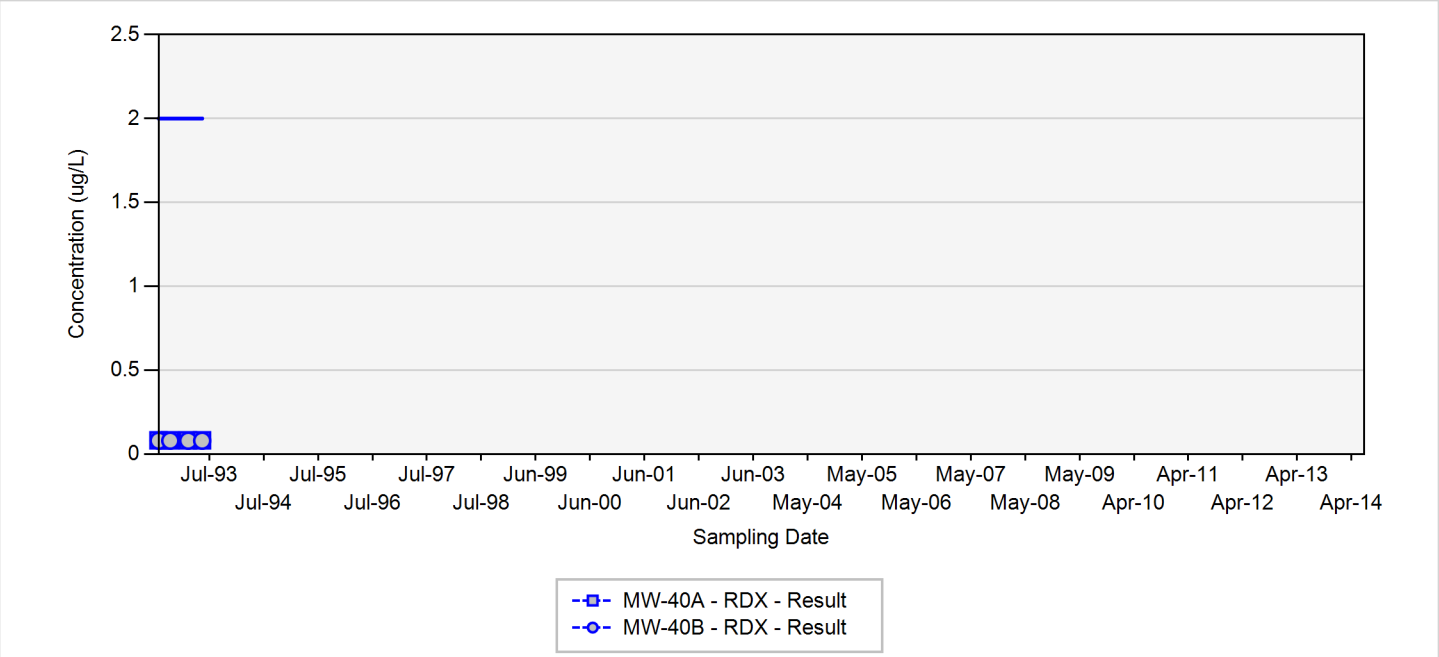
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

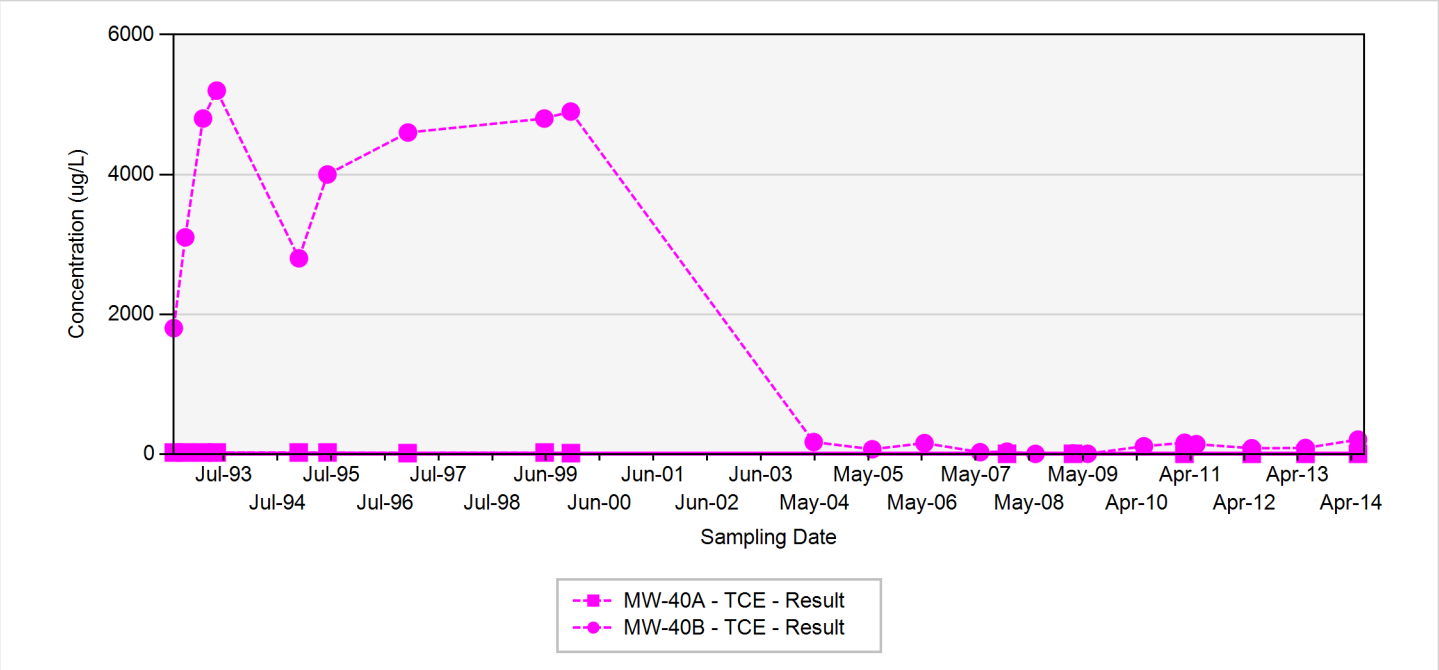
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-40





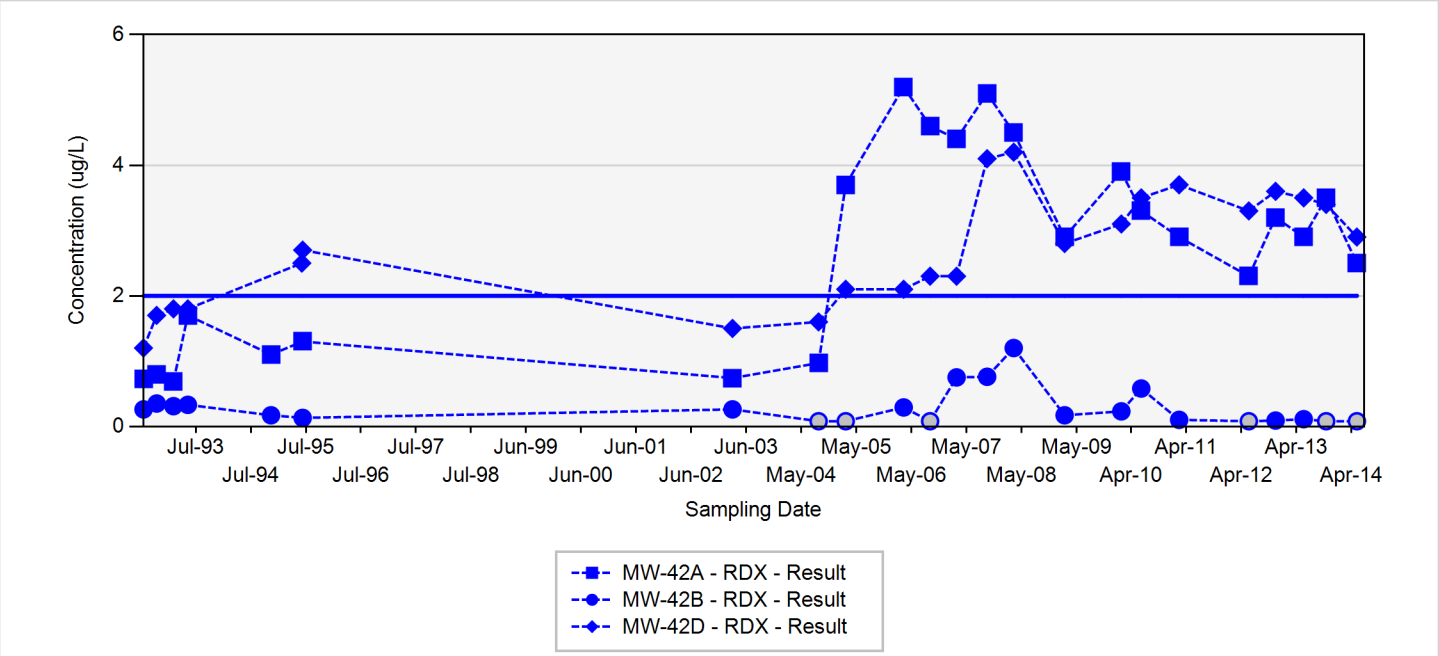
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

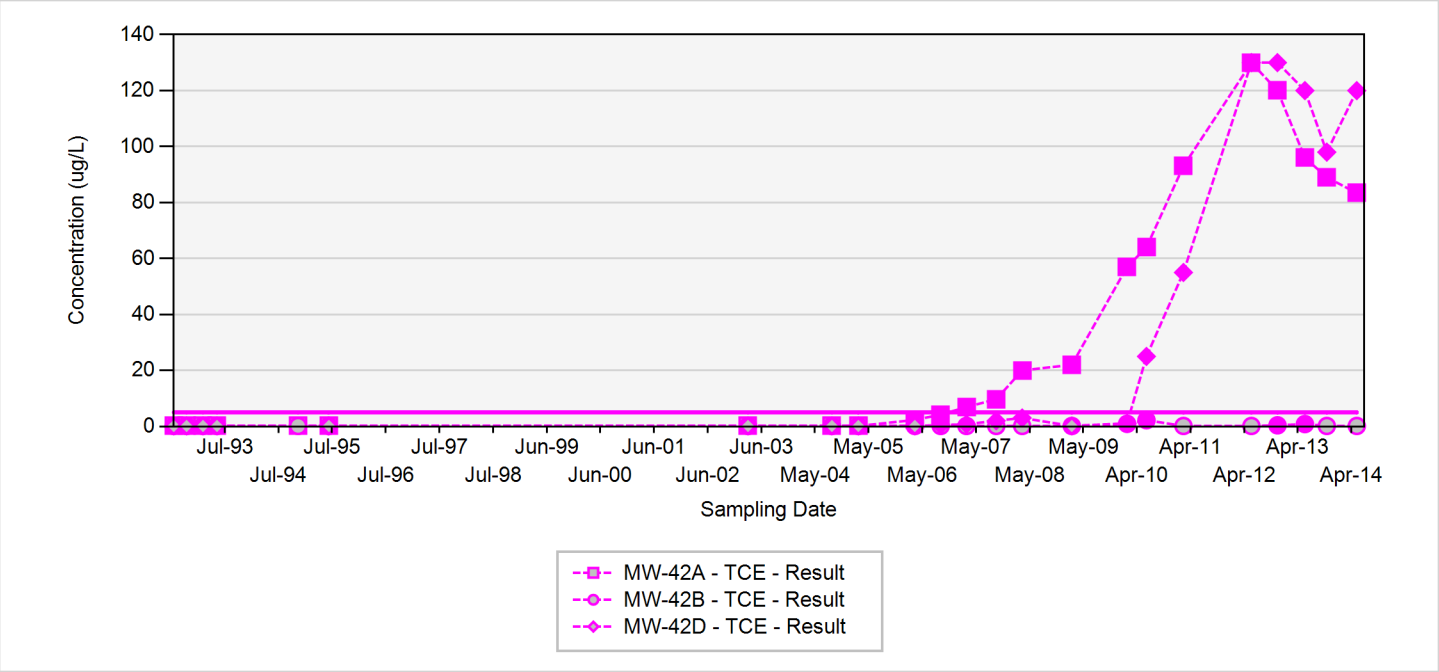
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-42





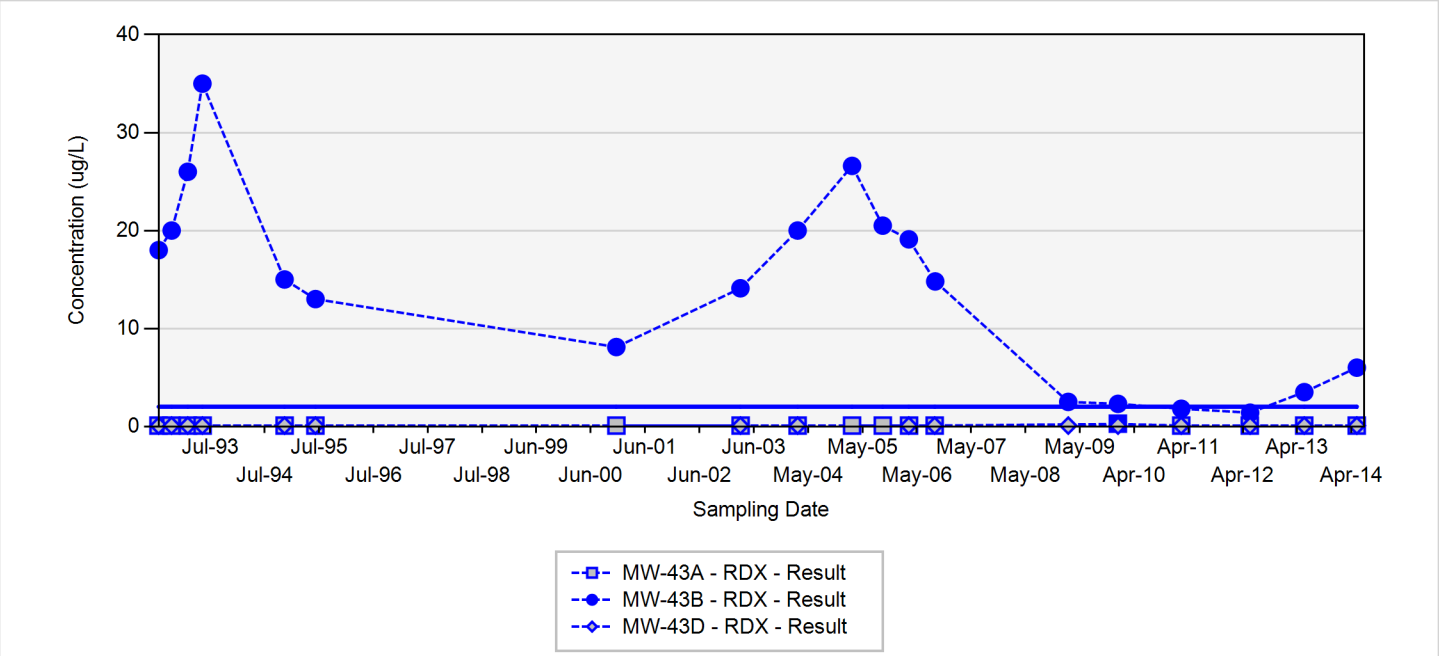
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

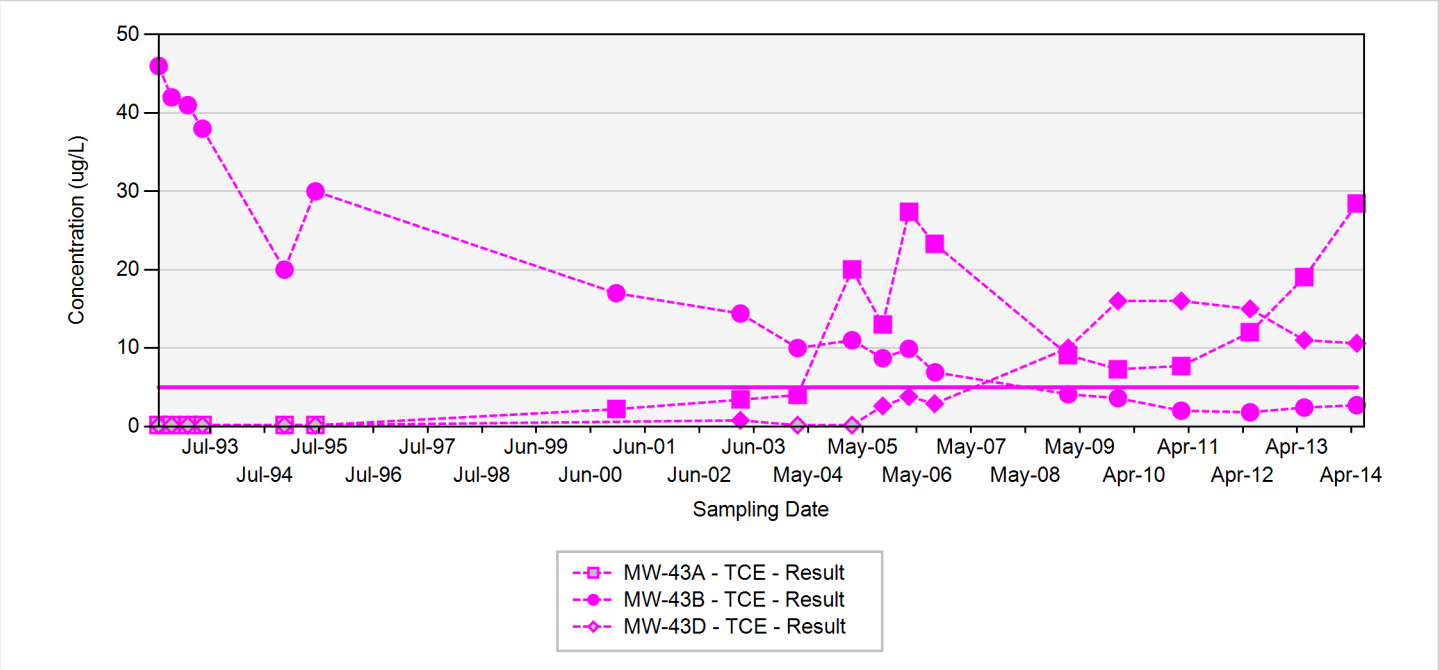
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-43





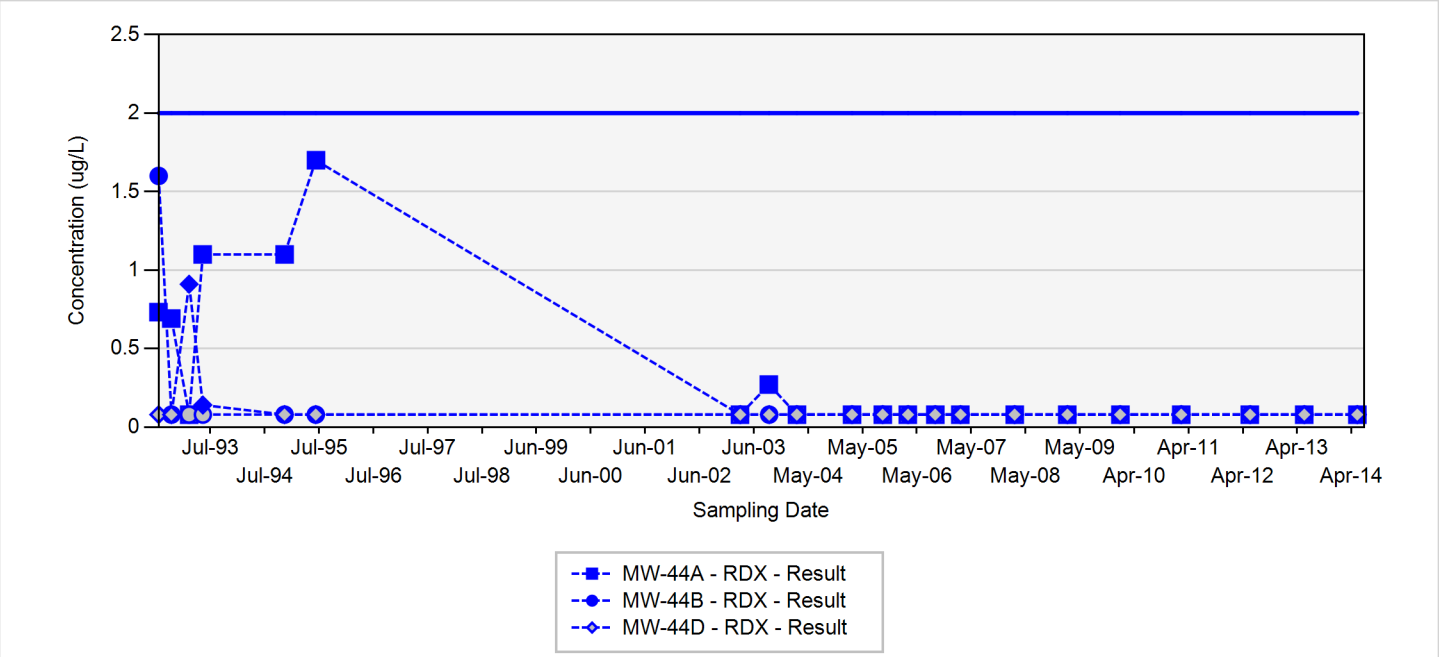
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

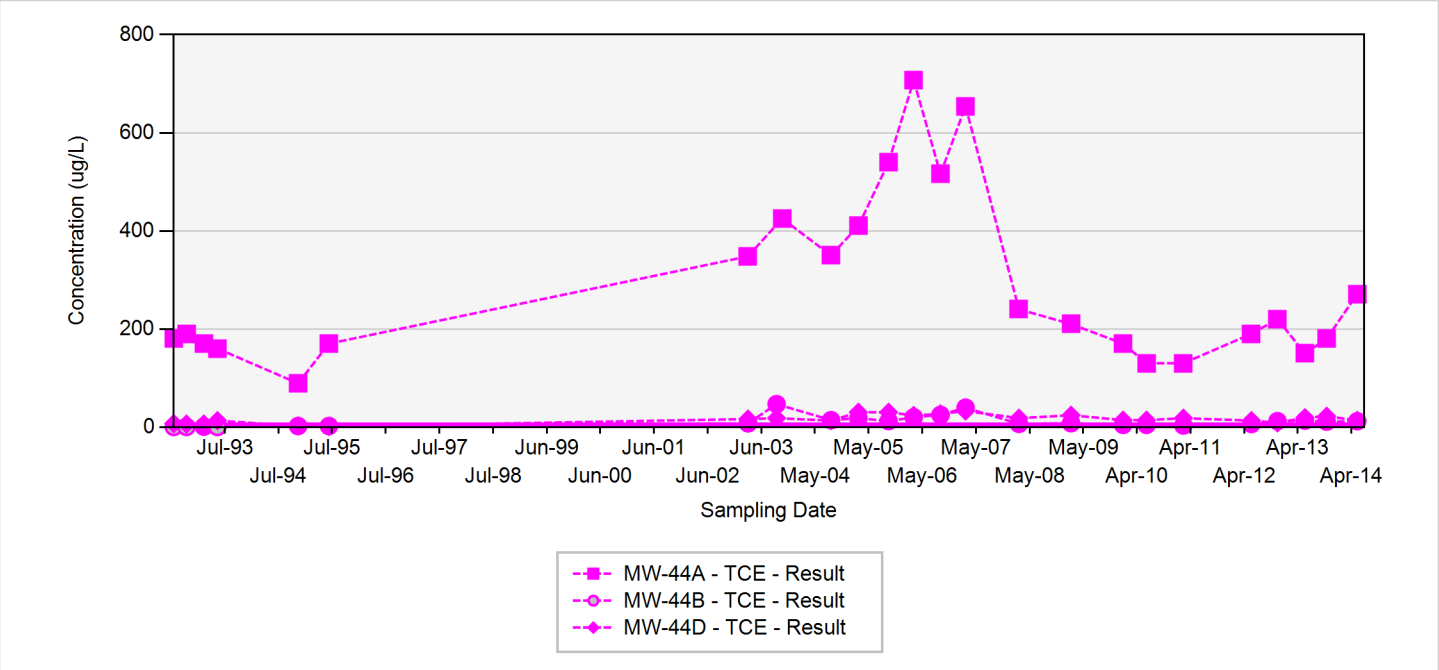
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-44





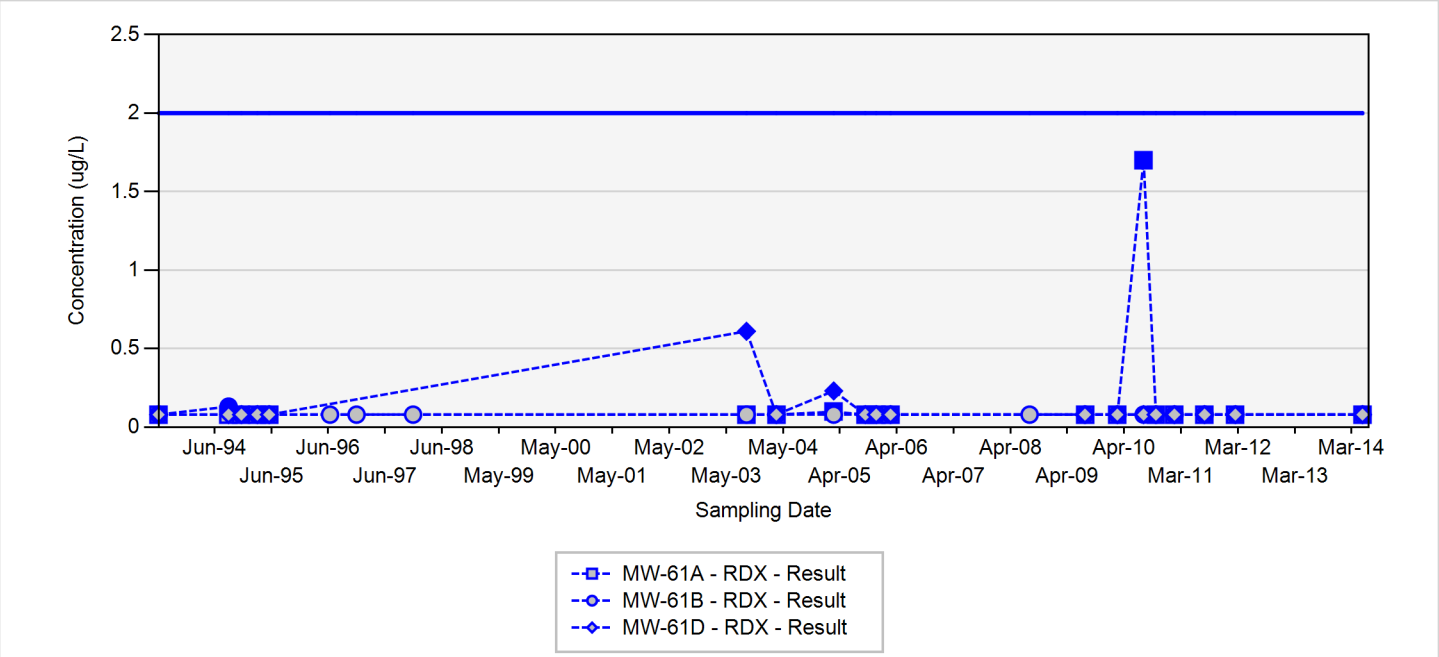
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

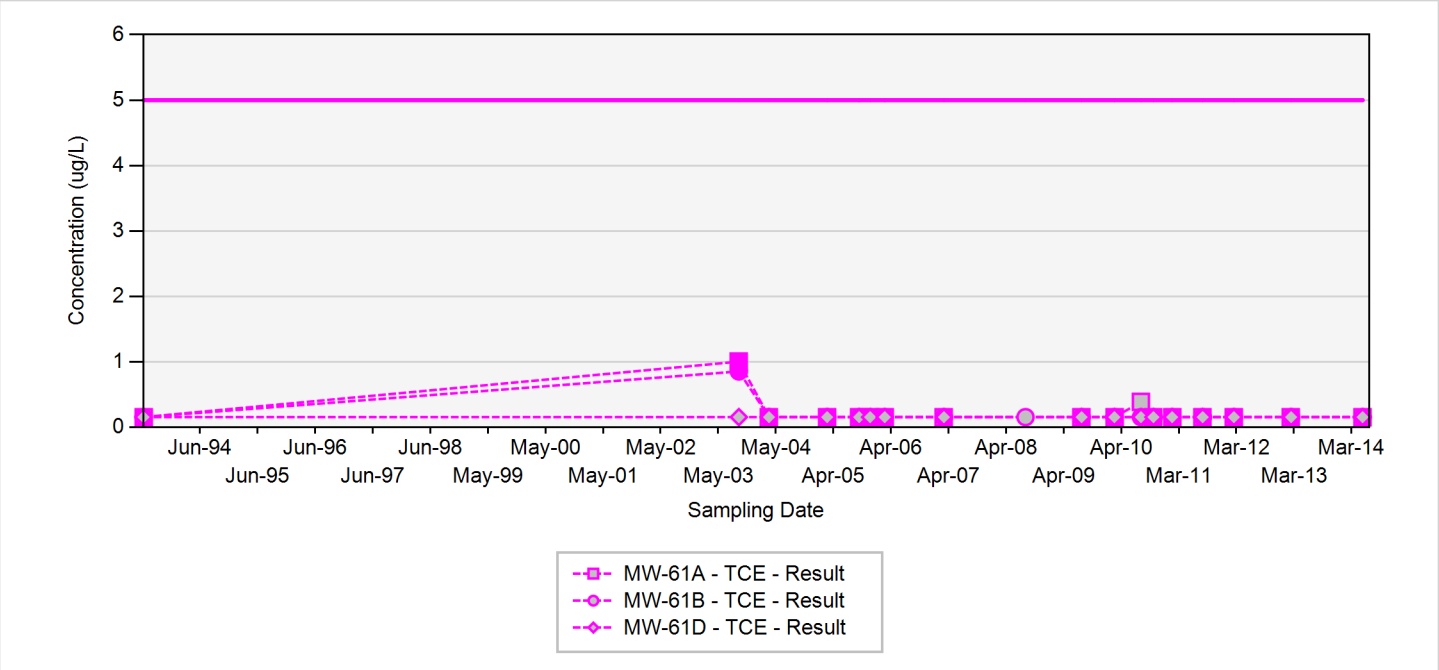
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-61





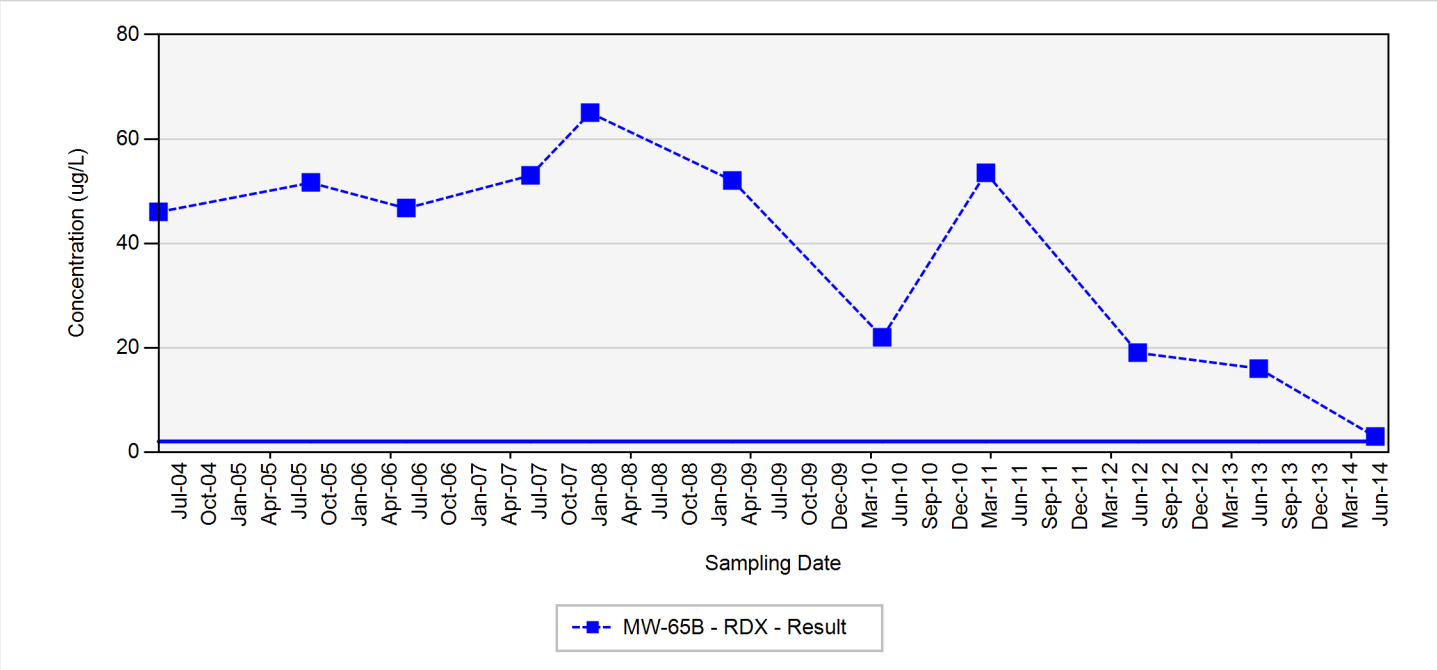
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

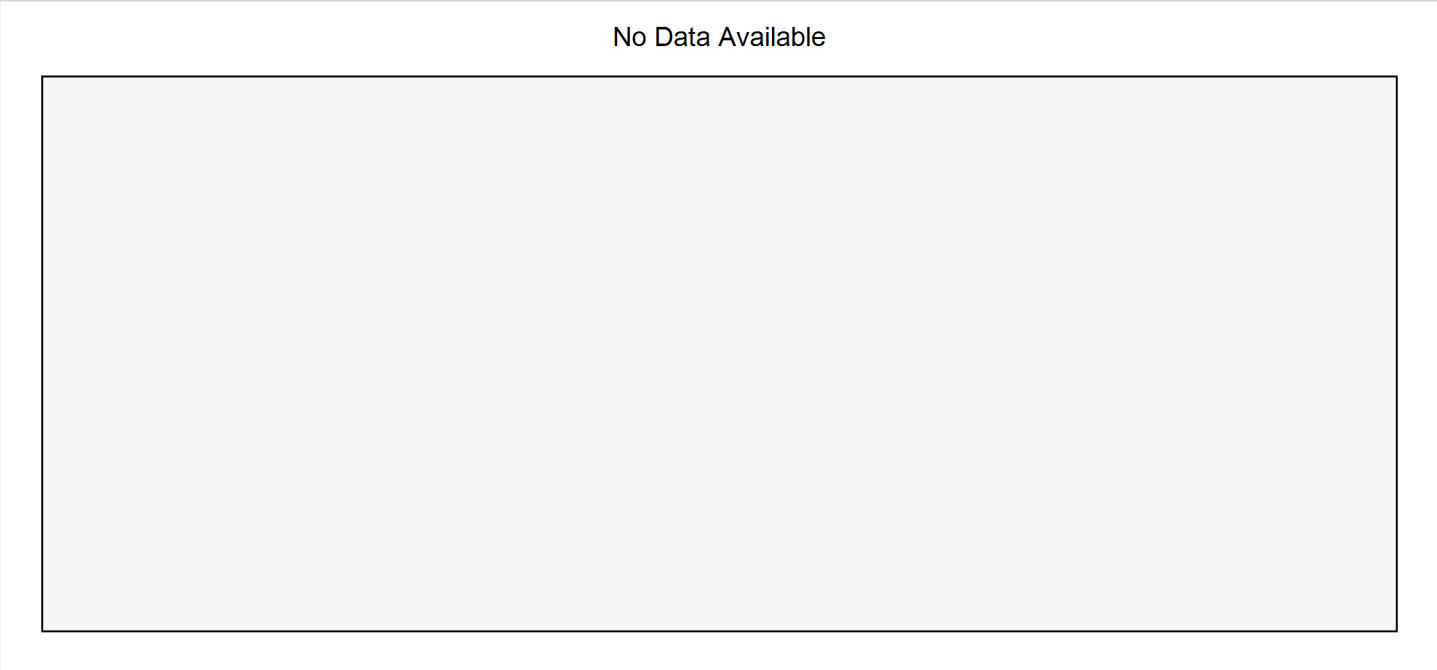
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-65





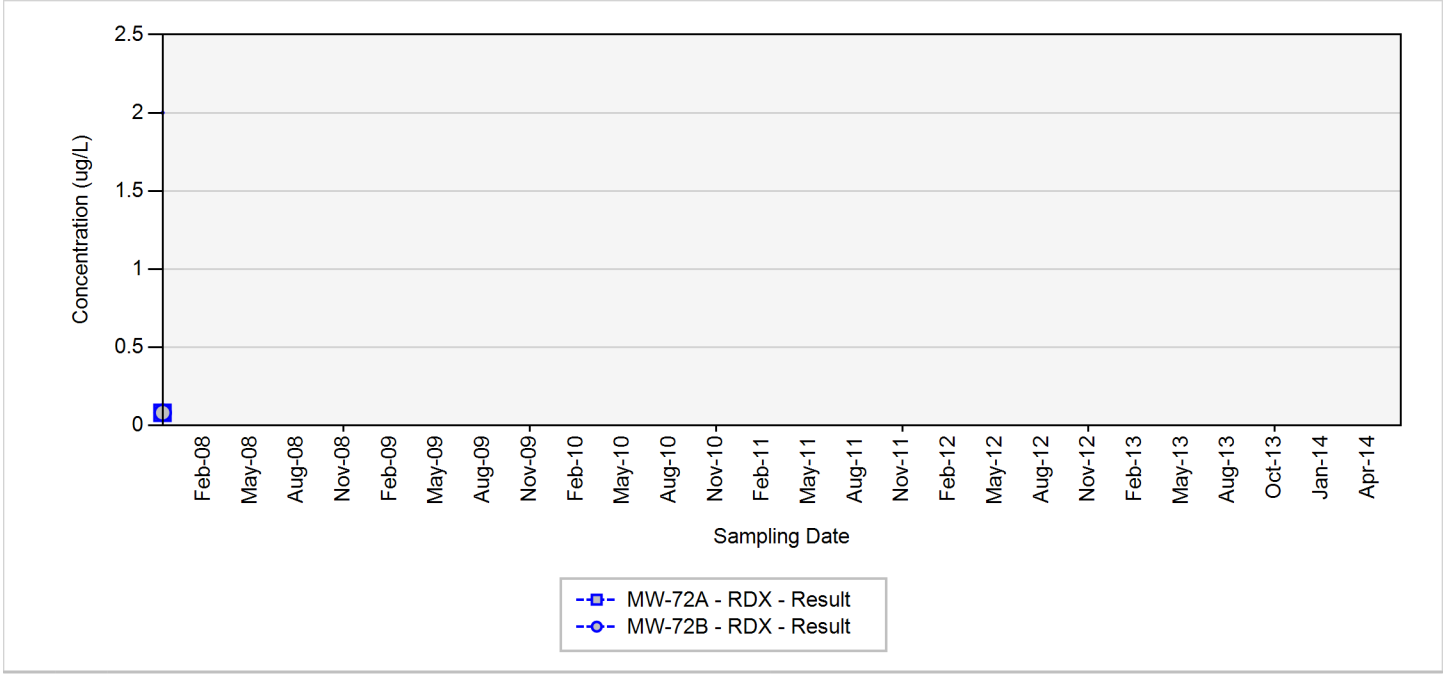
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

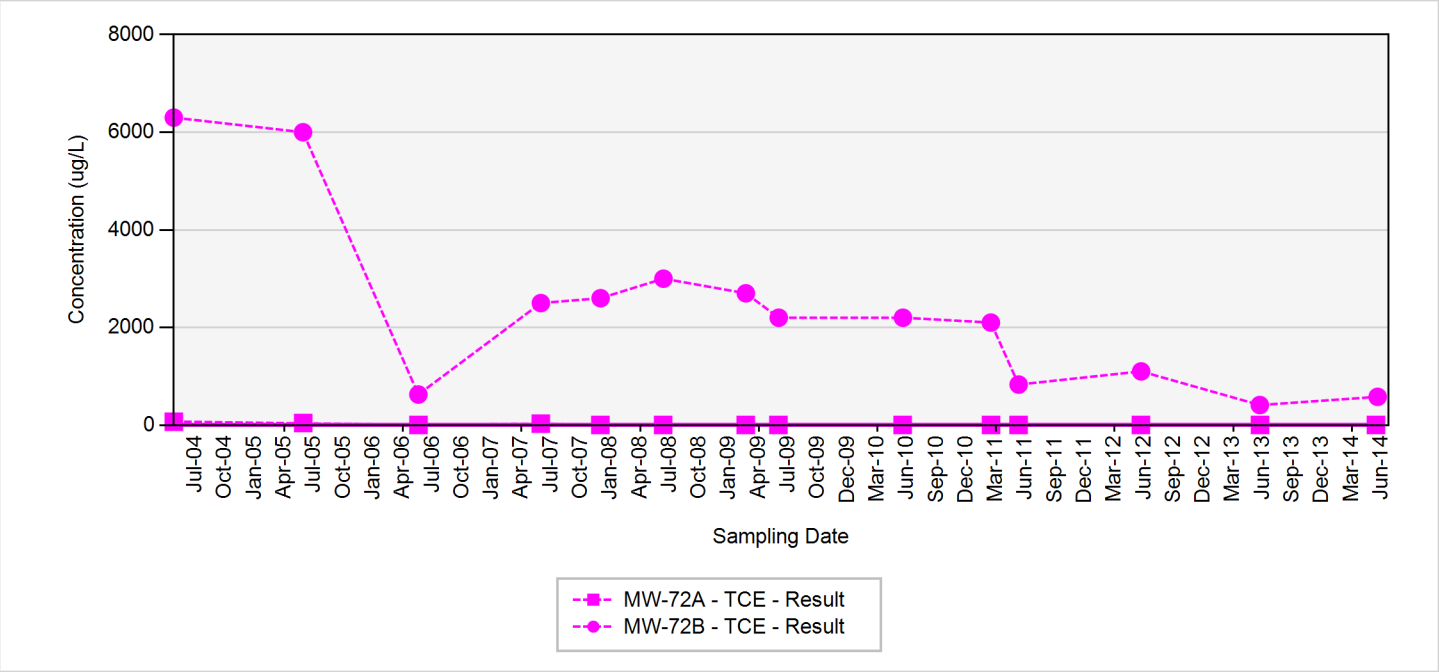
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-72





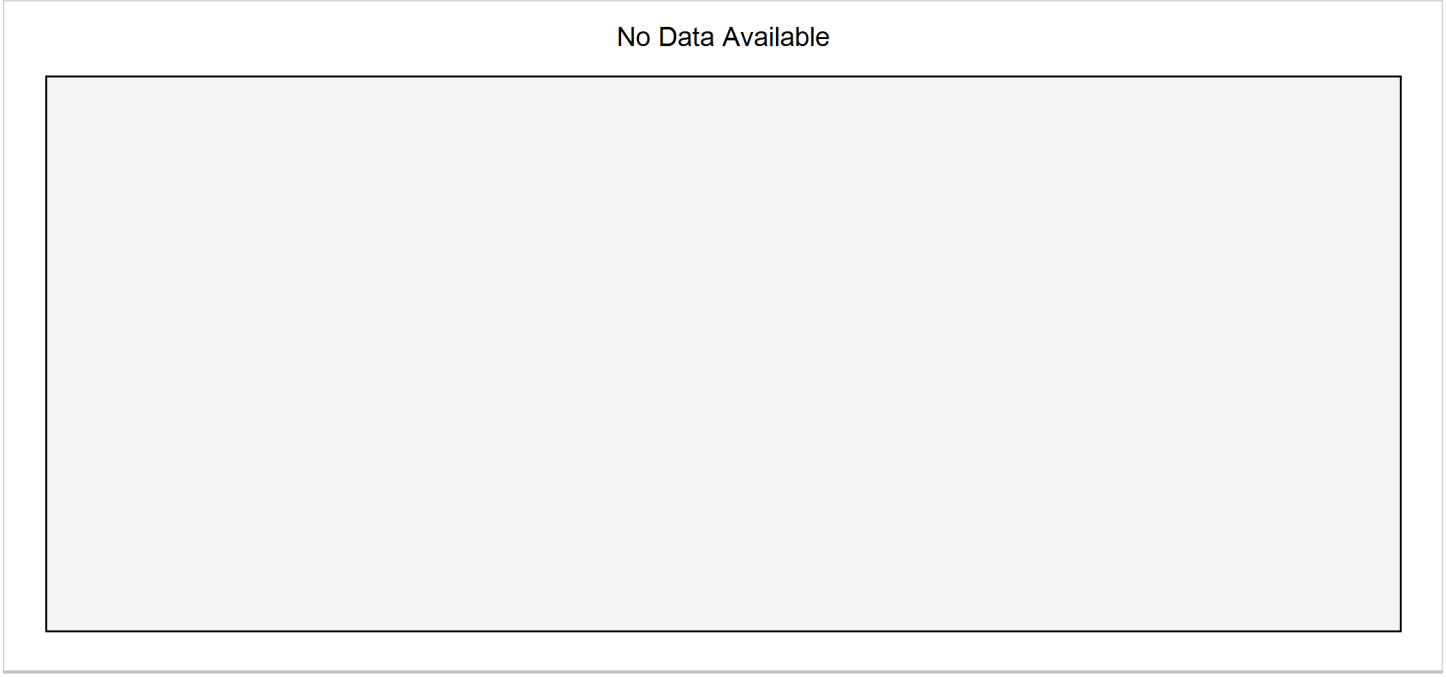
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

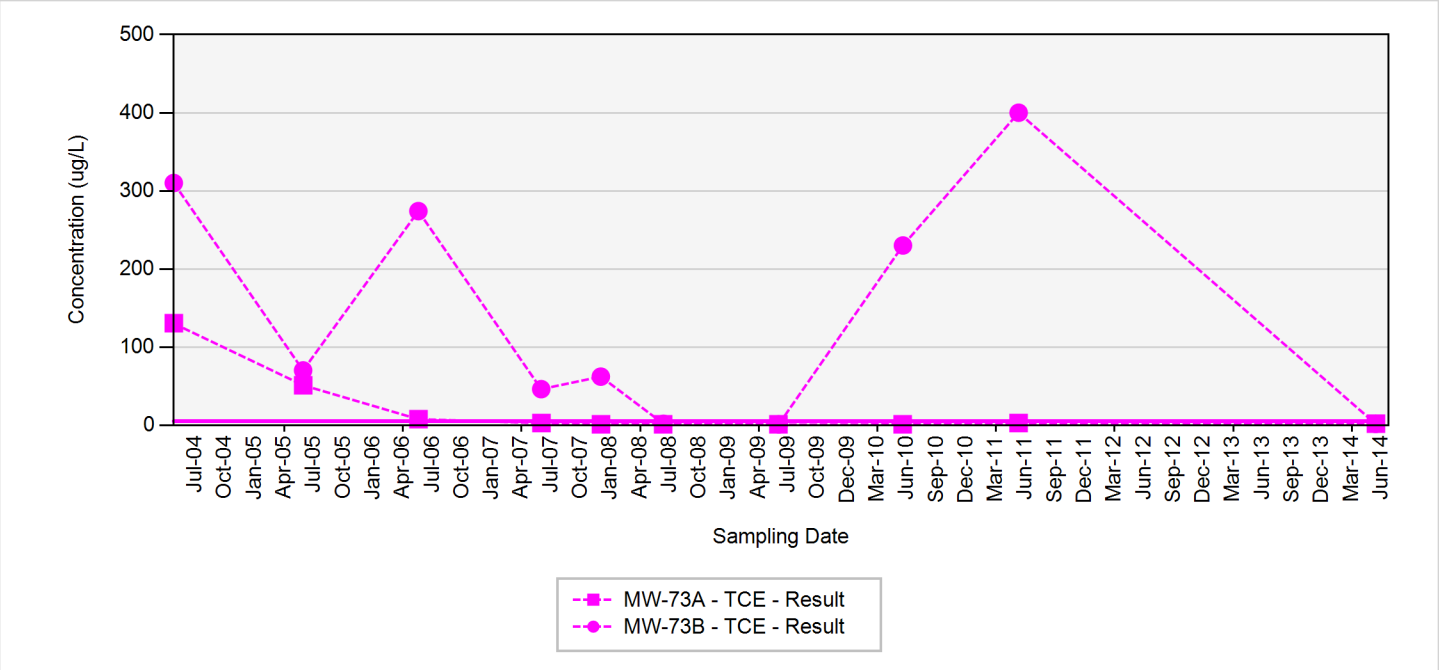
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-73





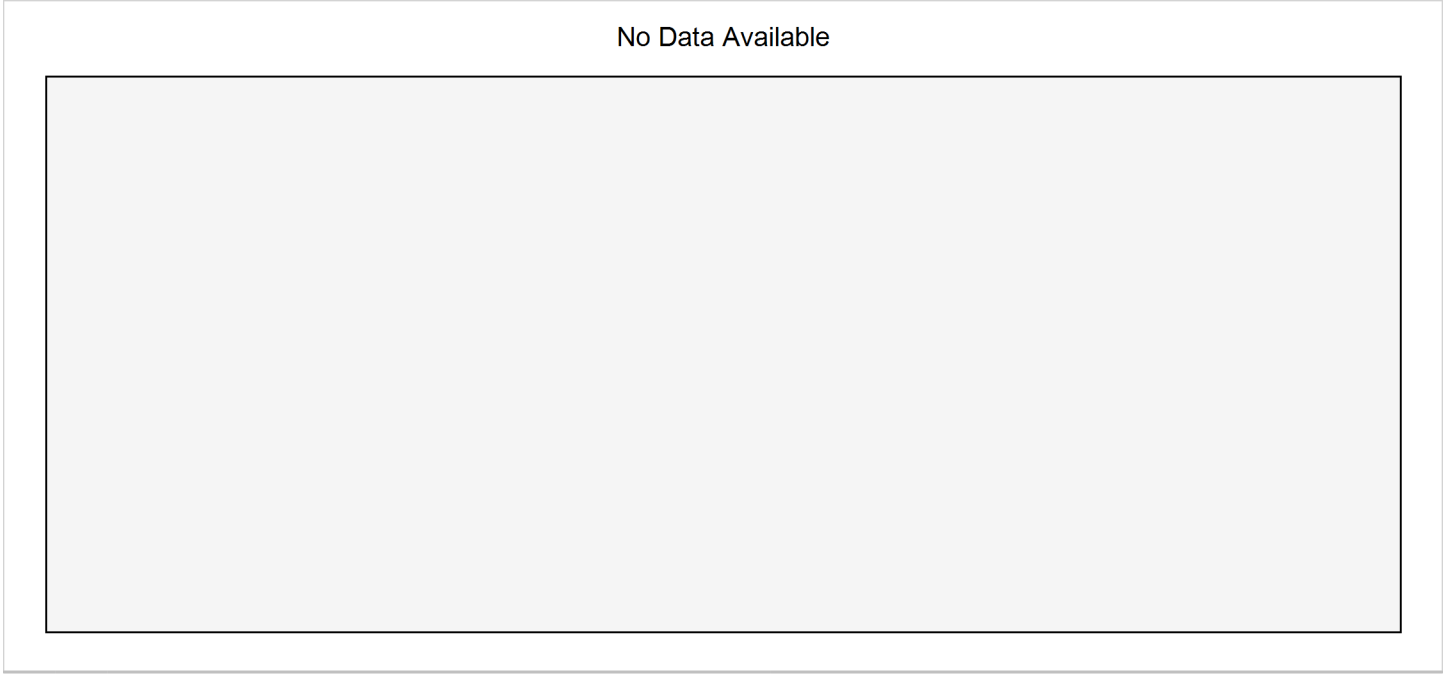
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

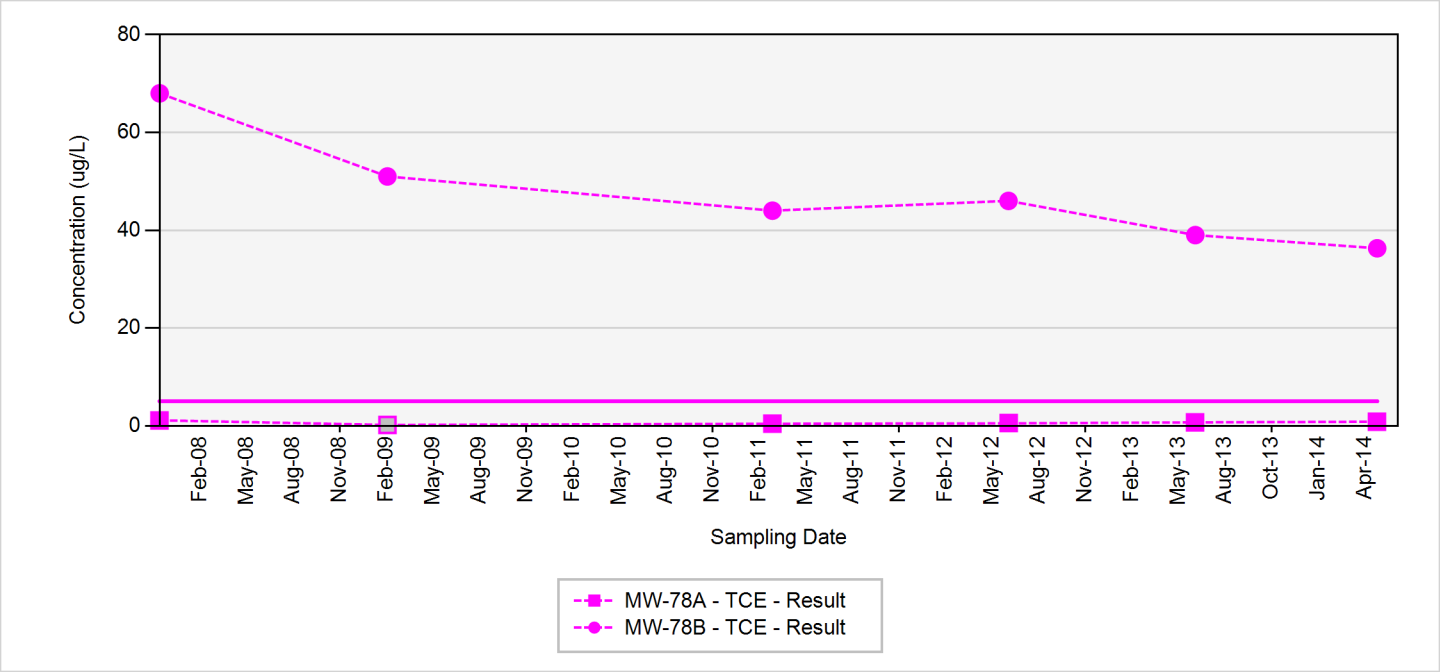
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-78





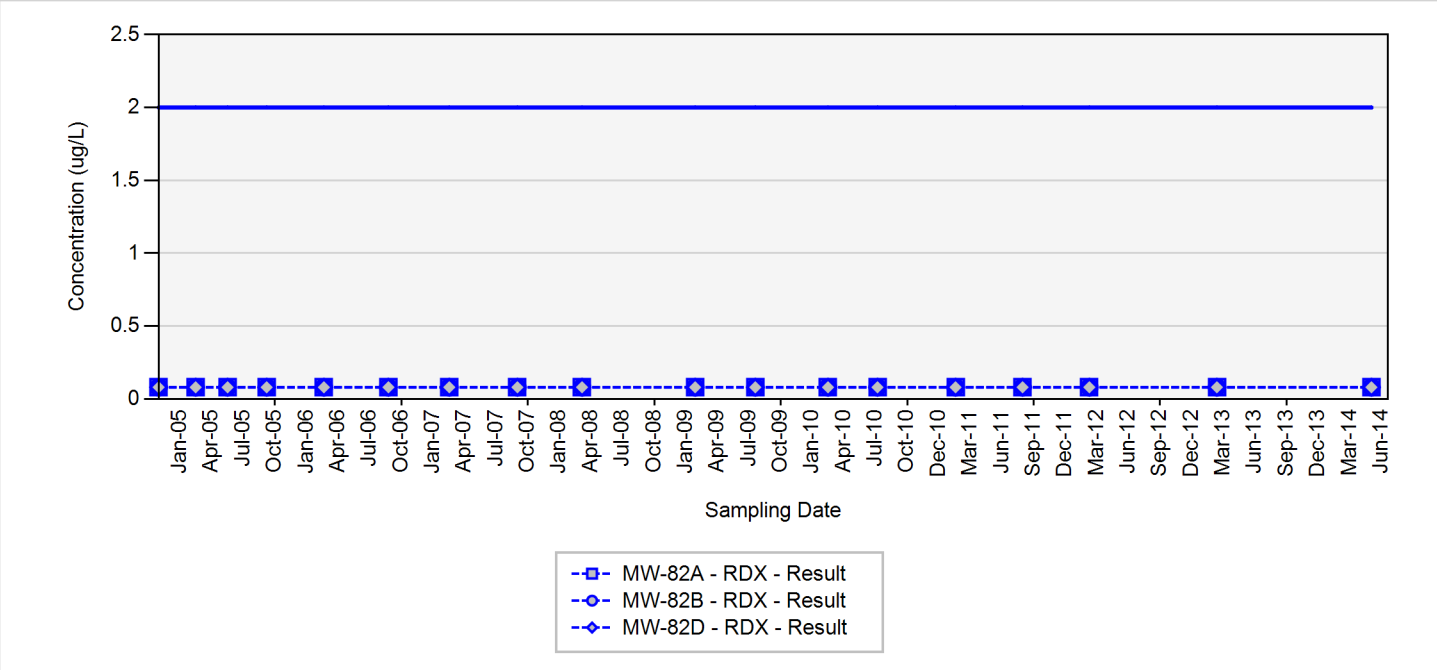
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

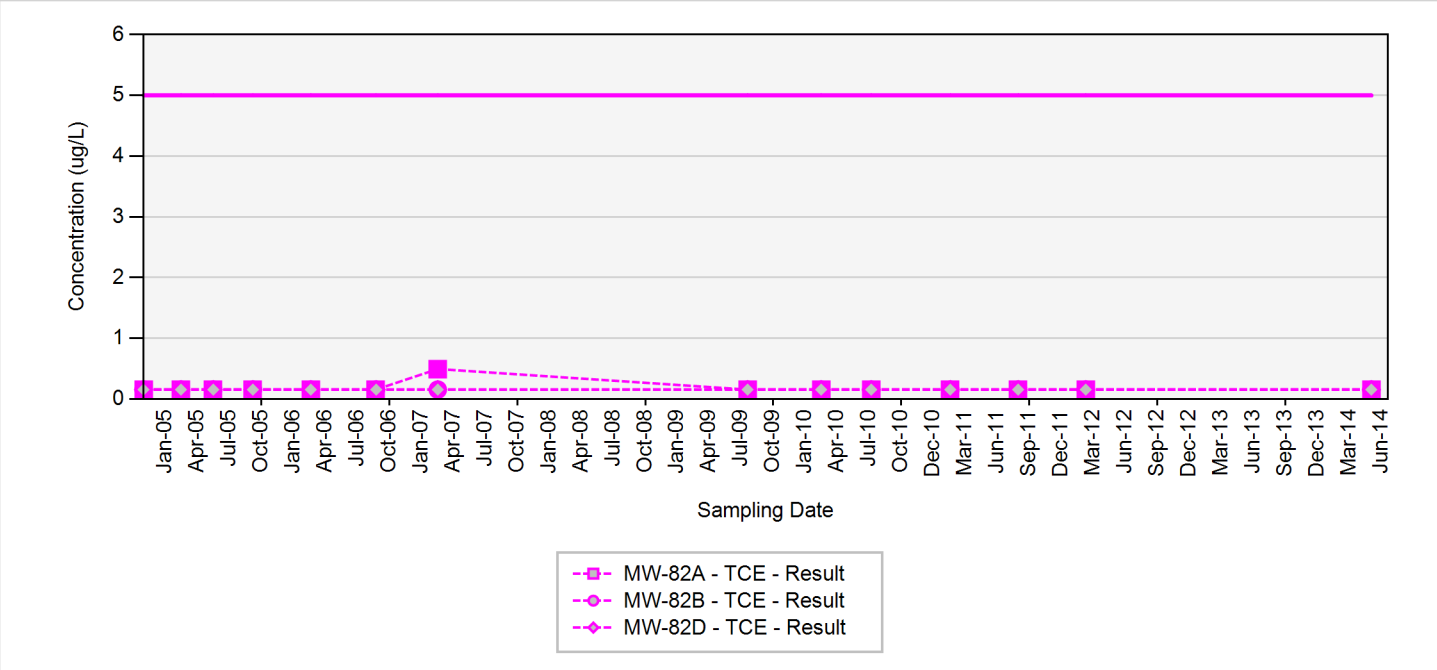
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-82





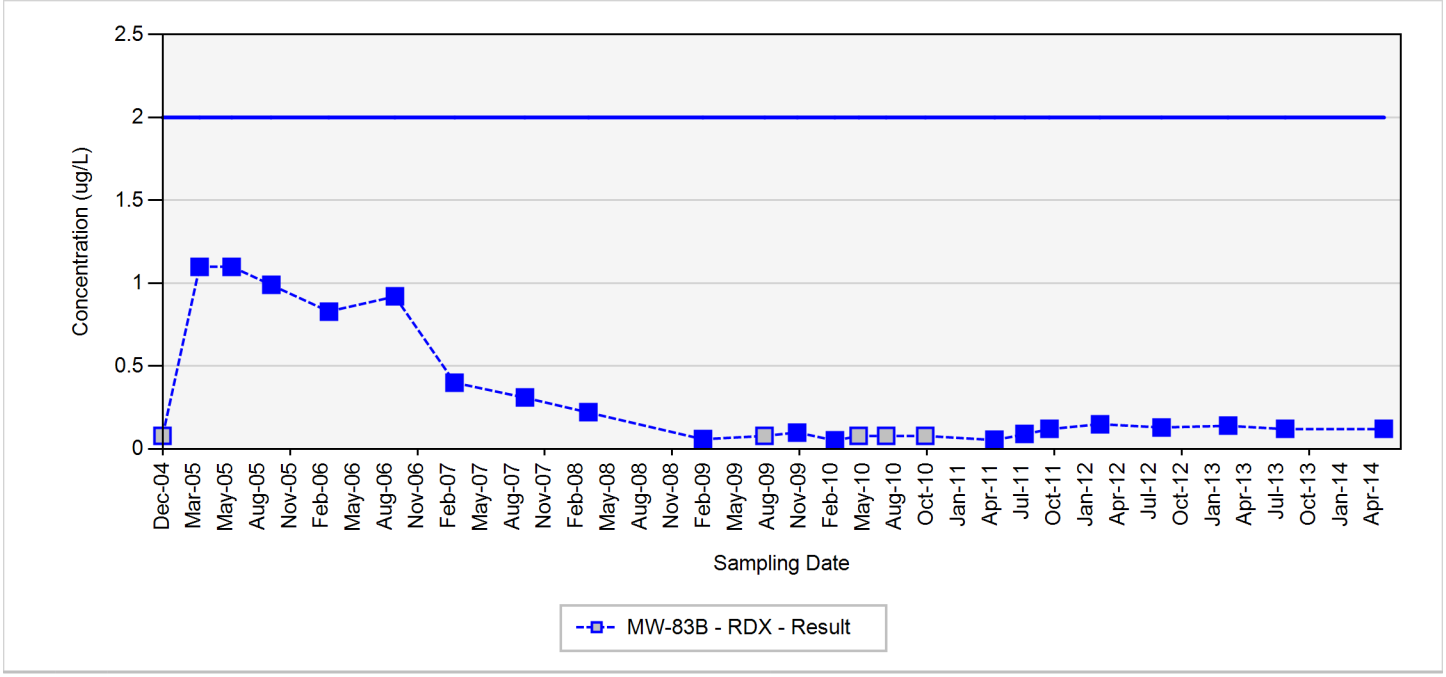
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

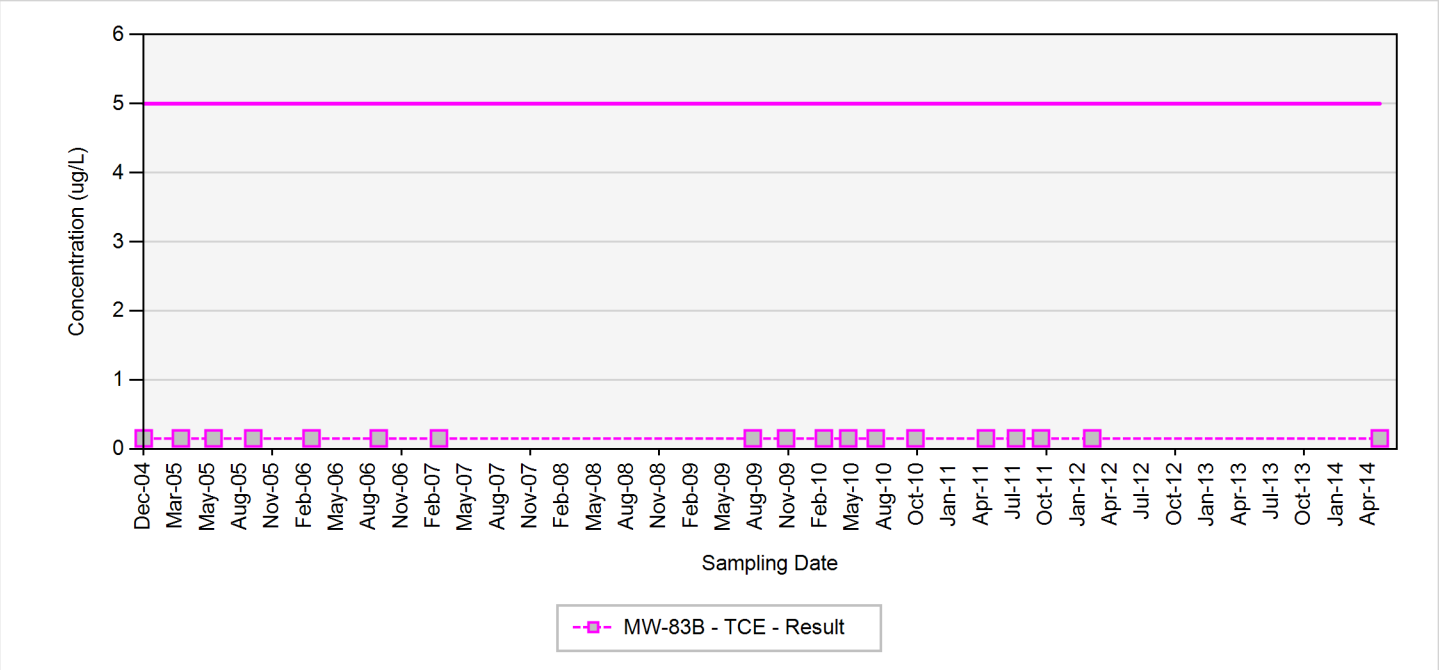
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-83





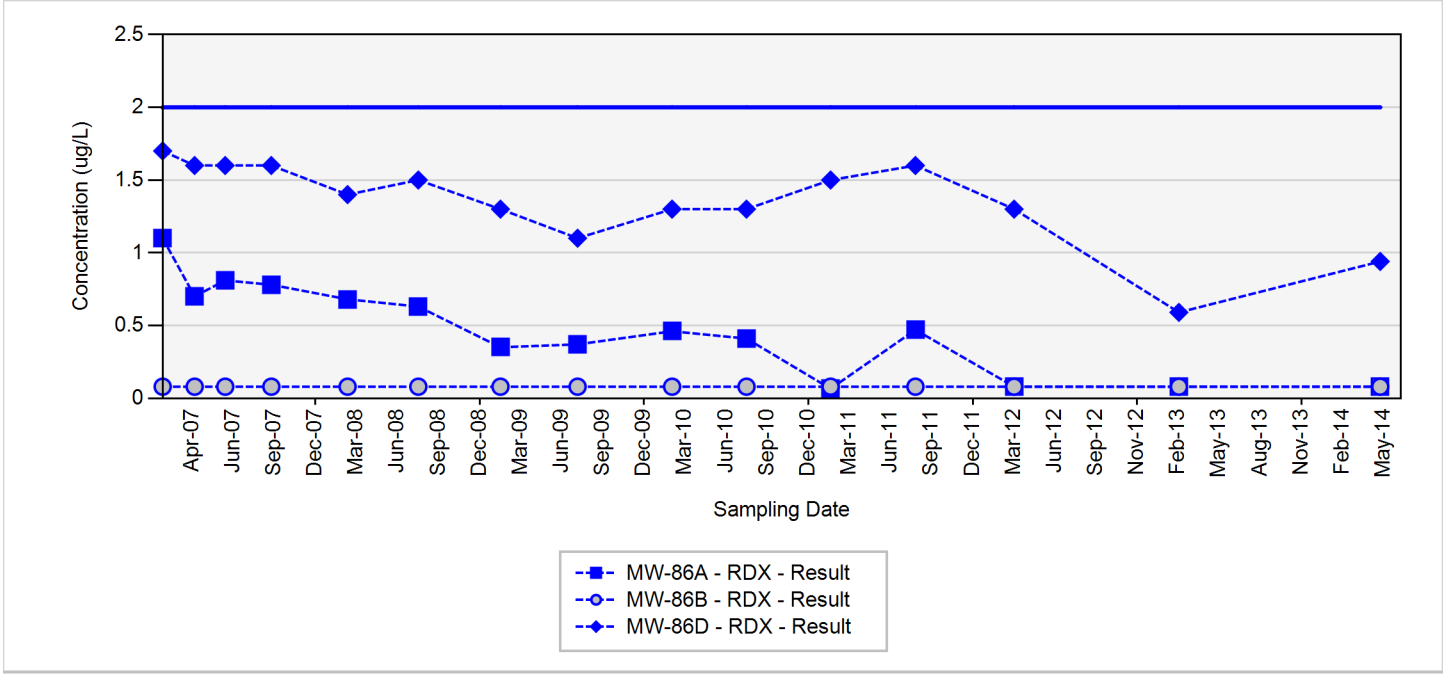
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

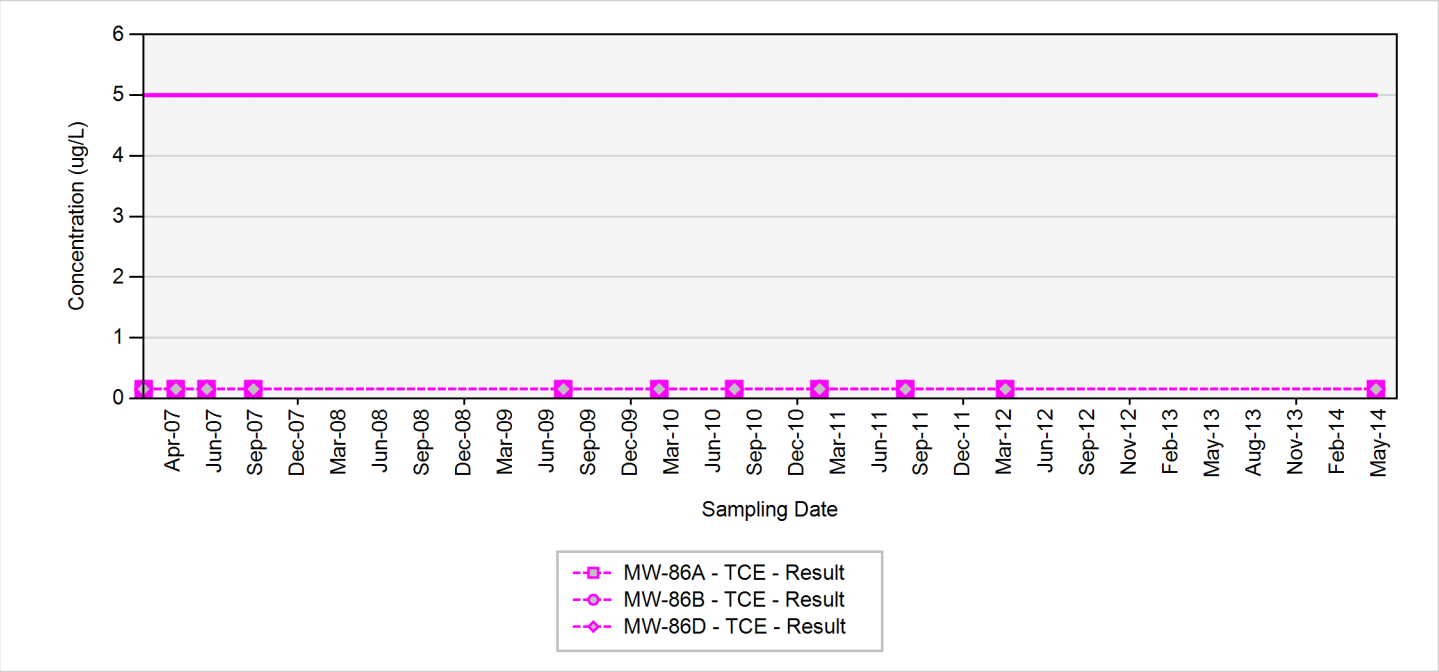
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-86





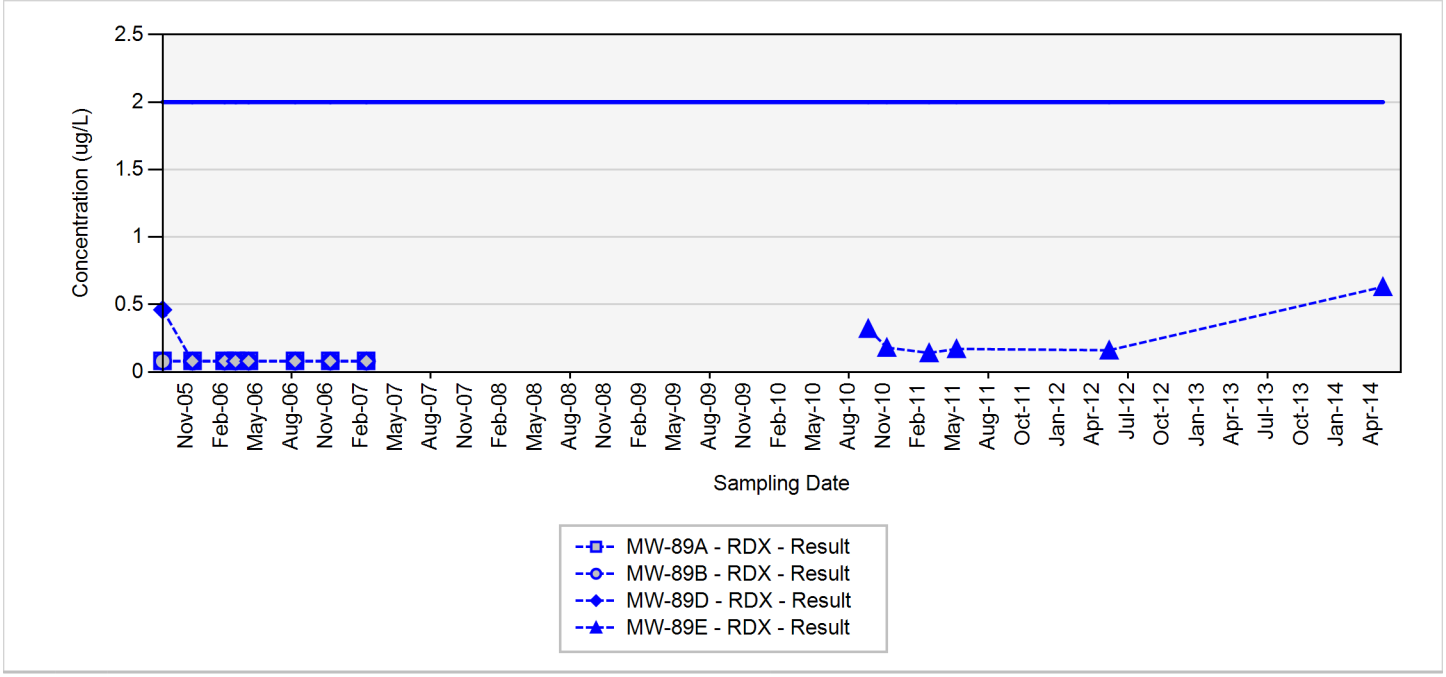
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

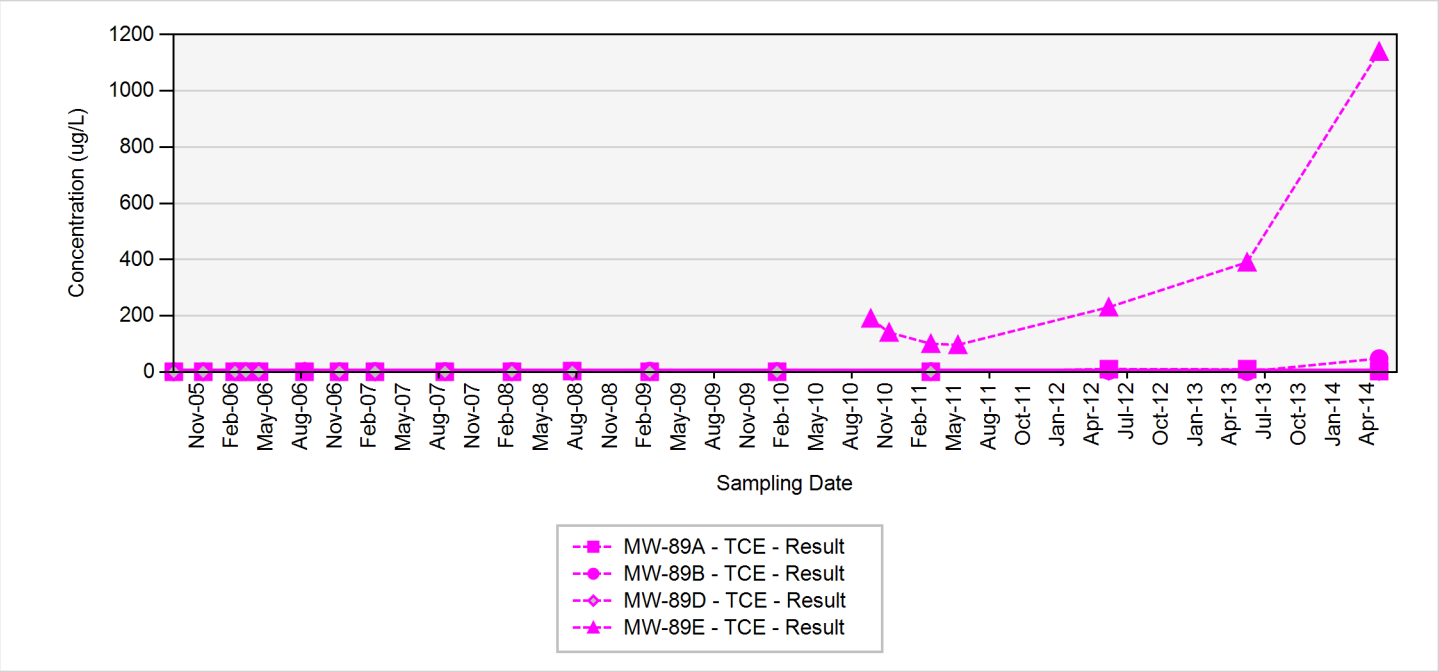
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-89





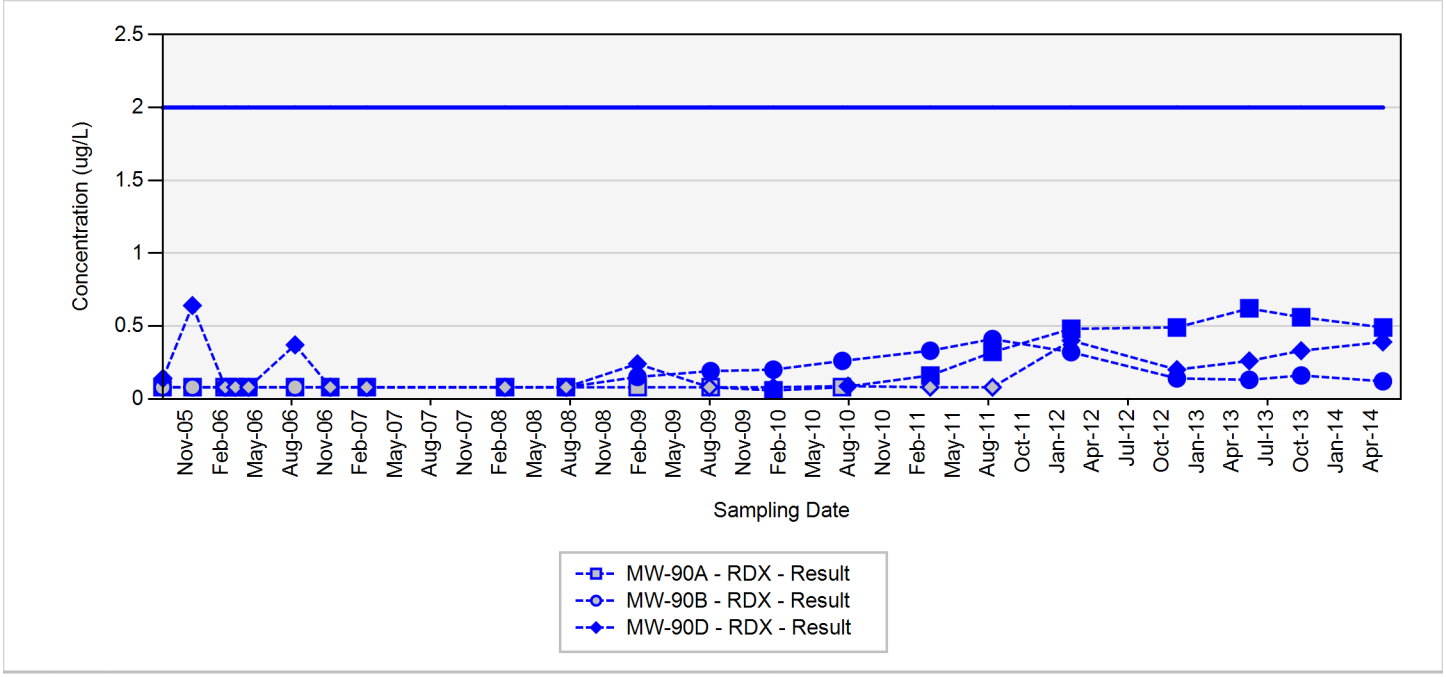
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

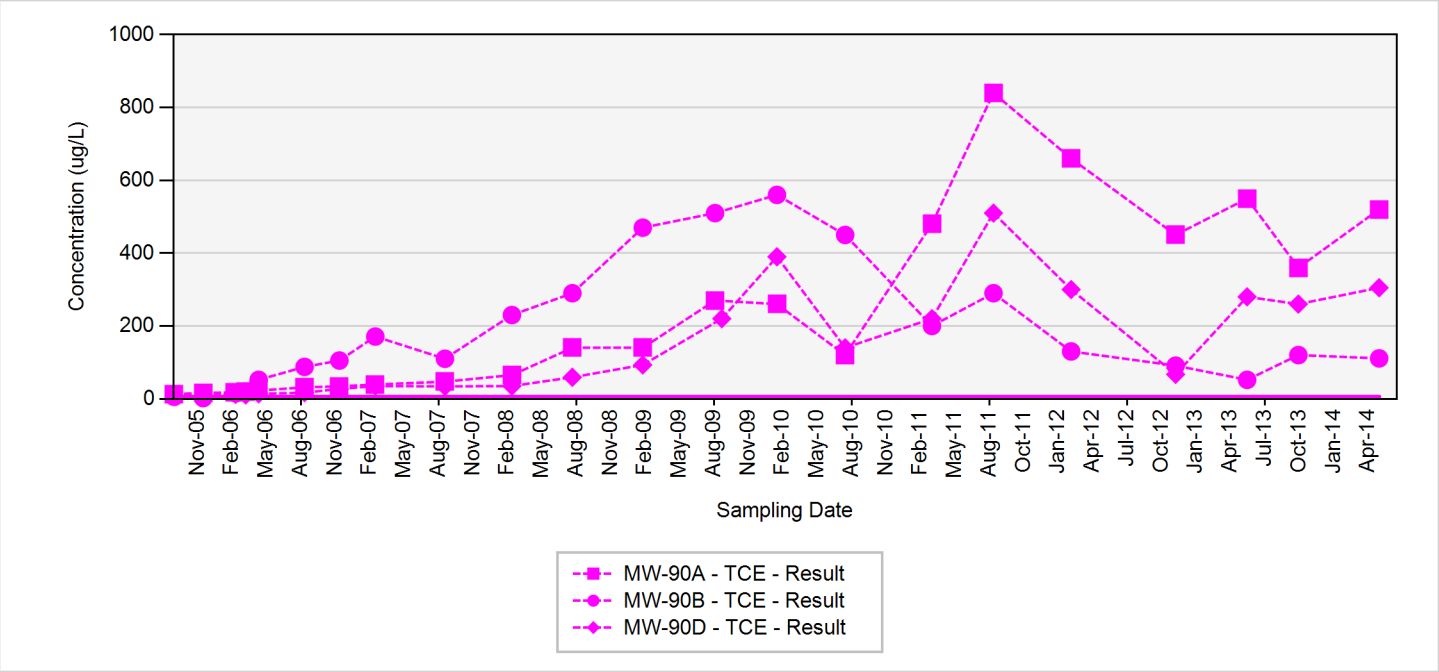
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-90





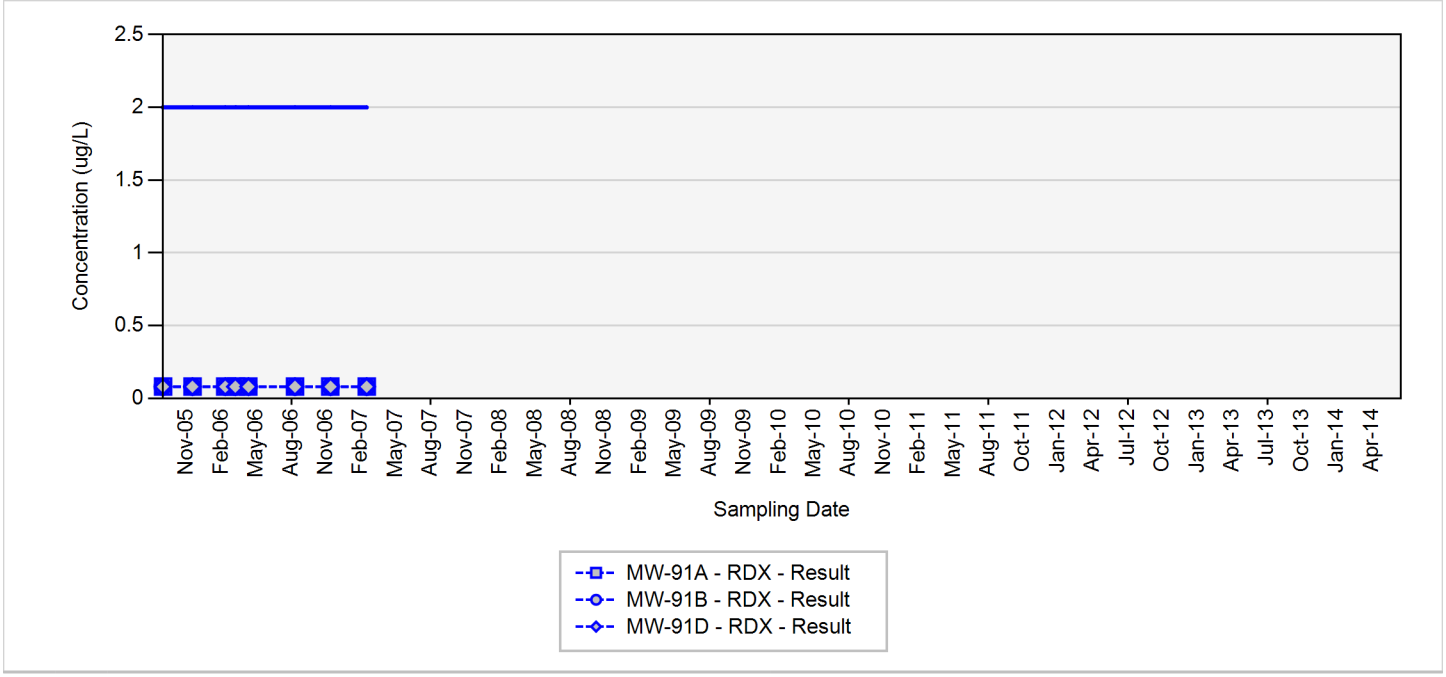
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

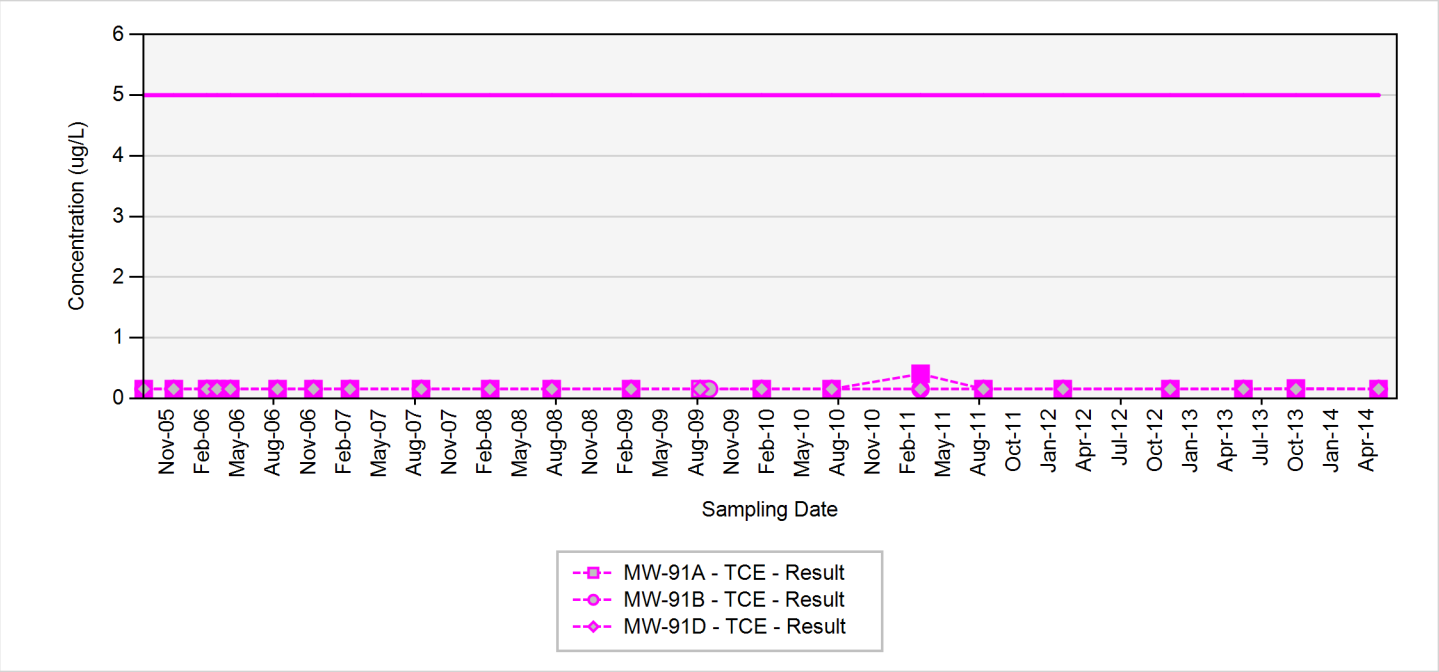
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-91





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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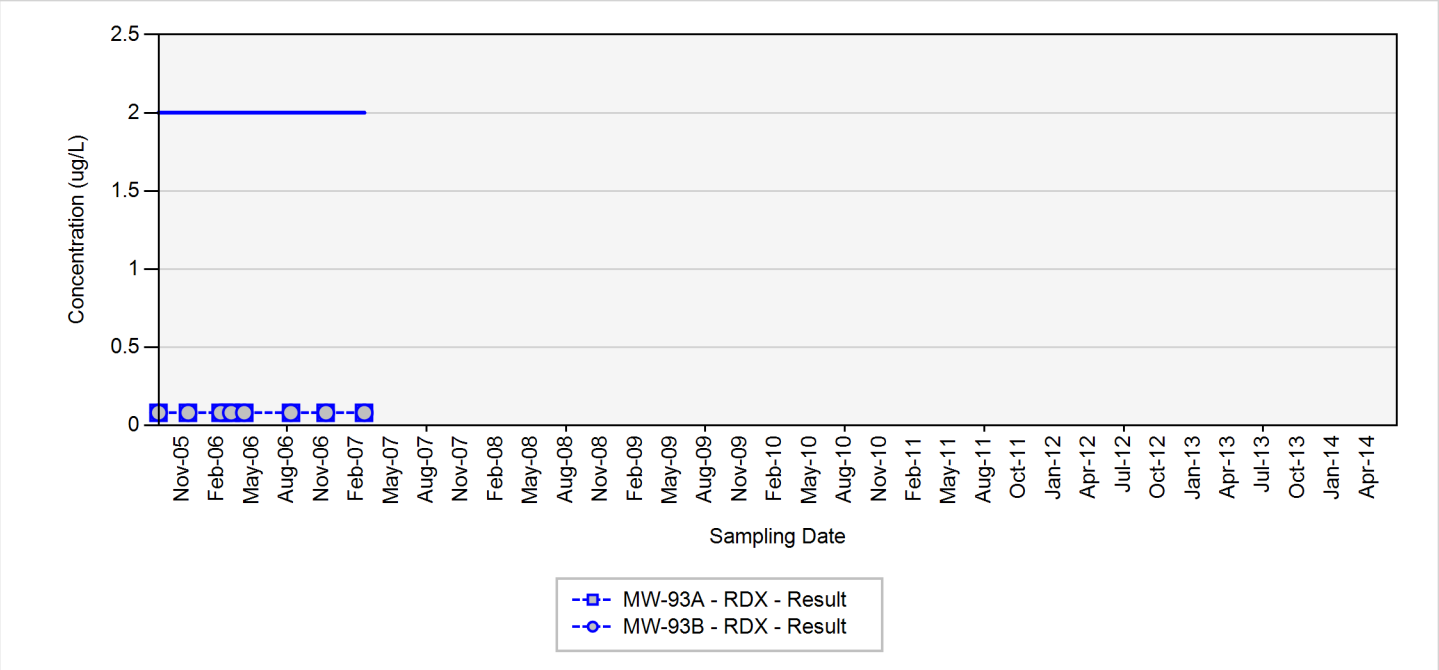
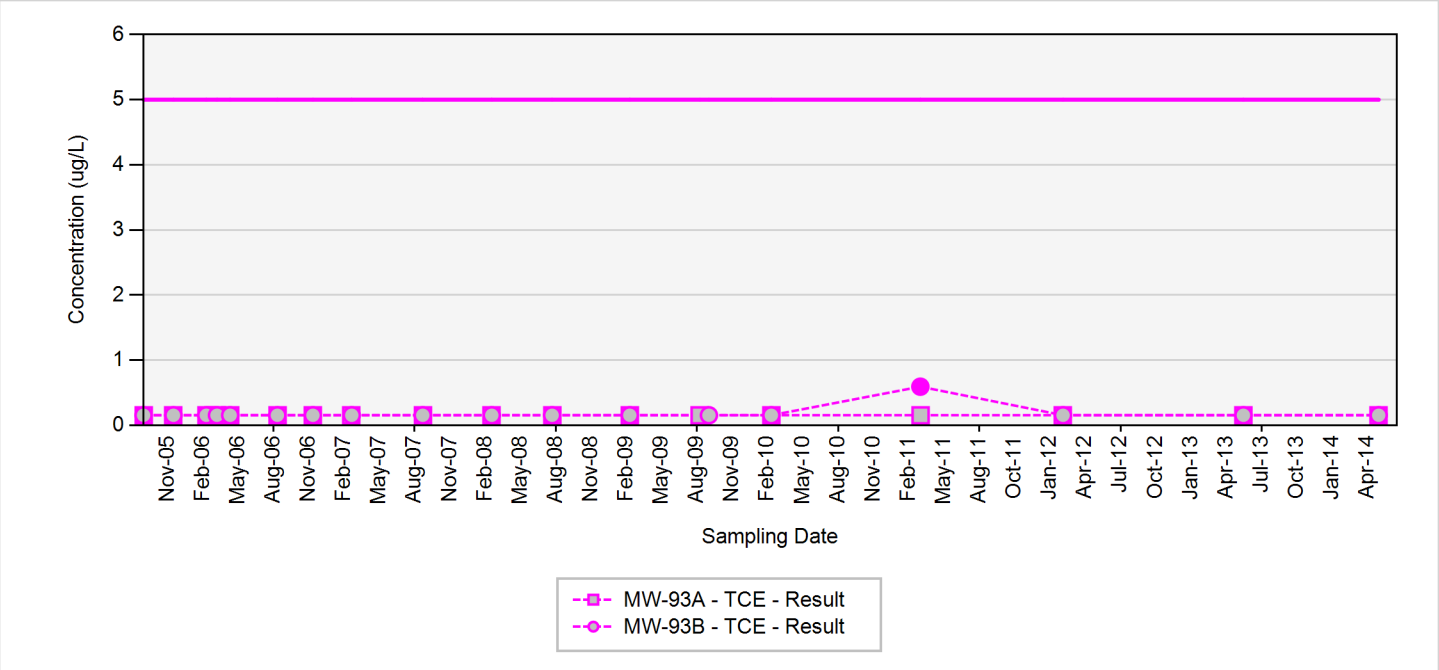
Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-93





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
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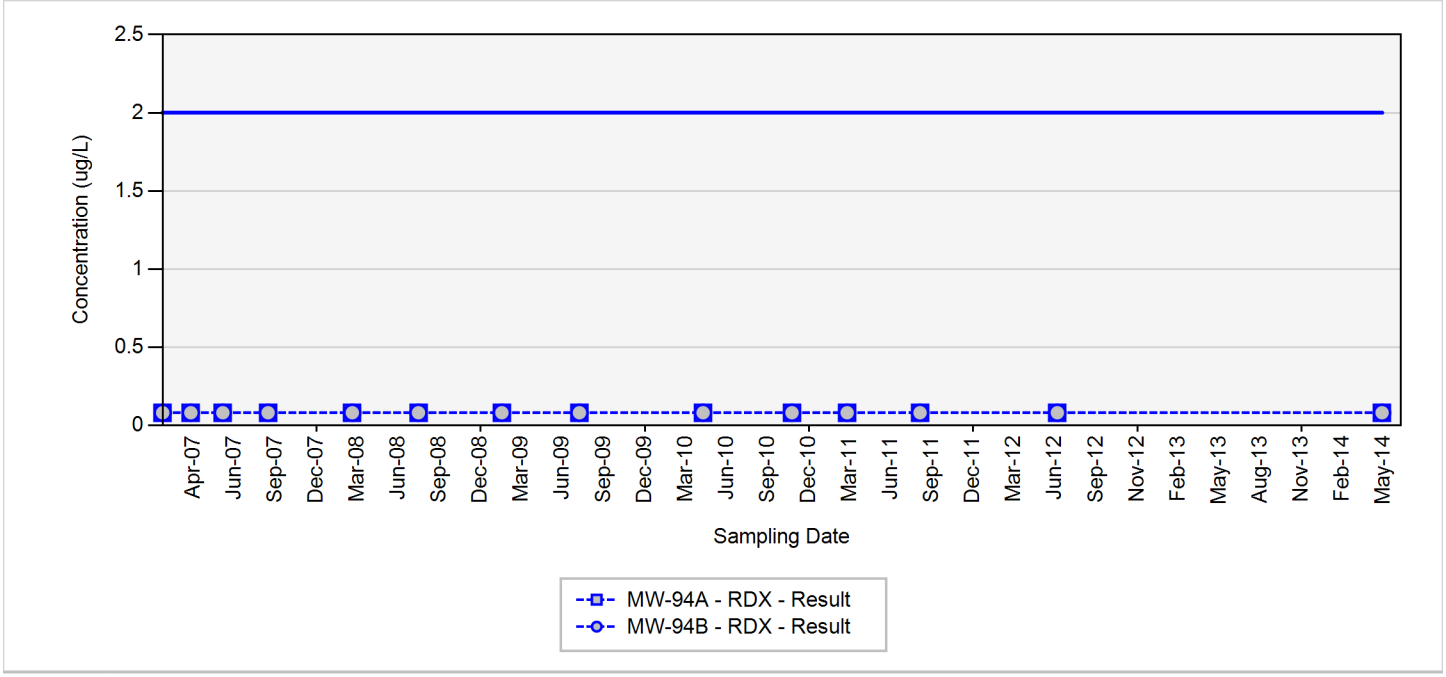
ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-94



No Data Available

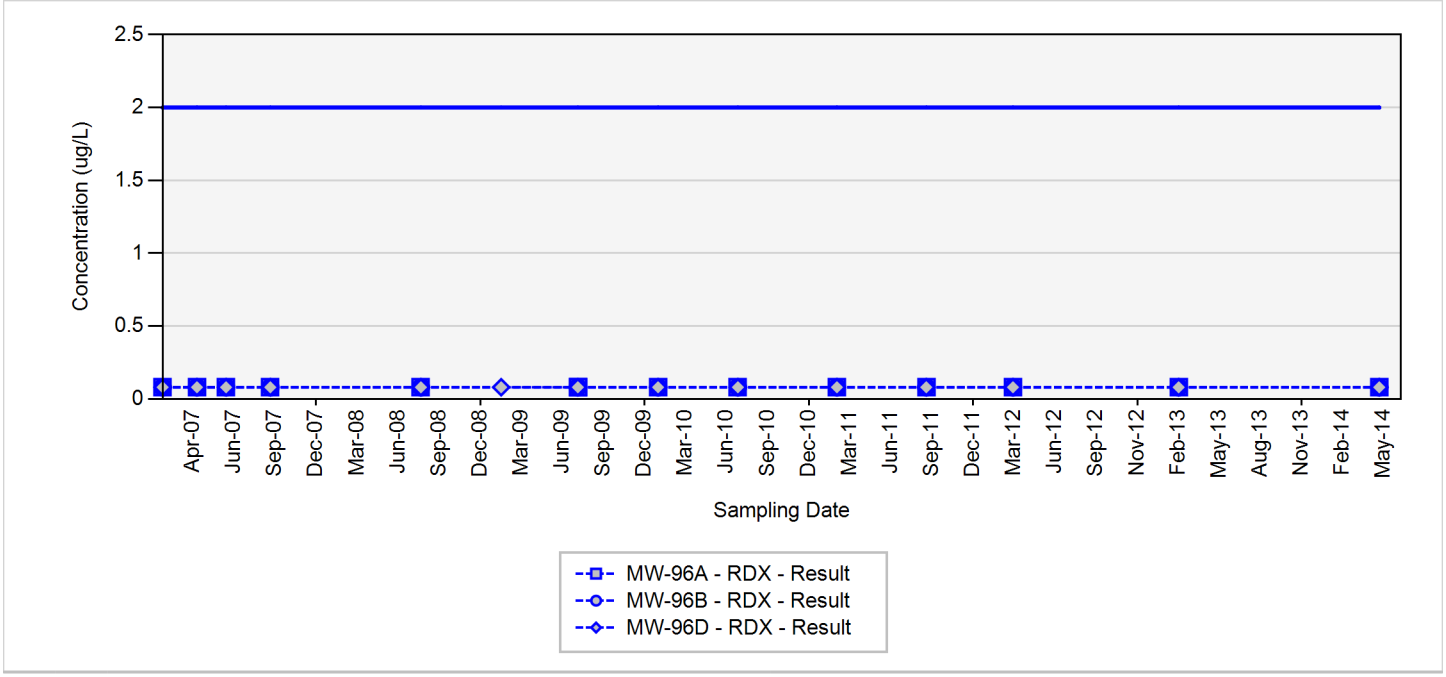
TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

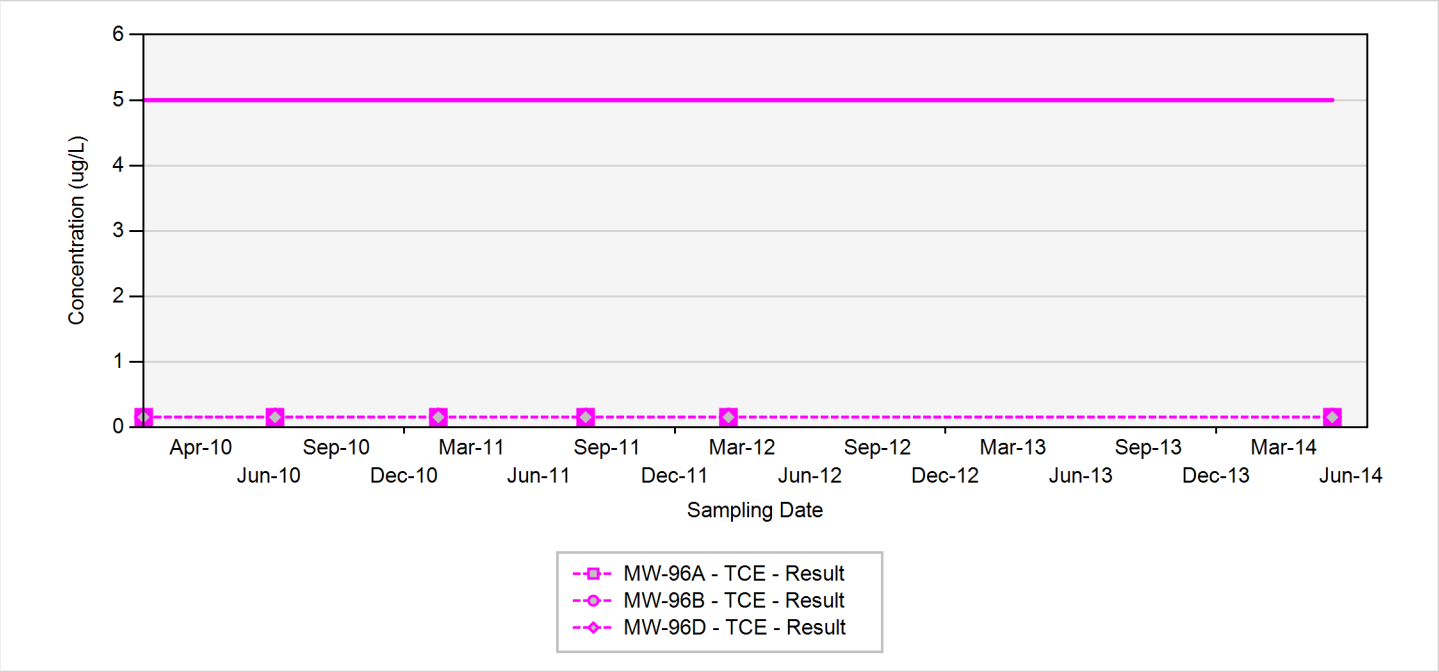
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-96





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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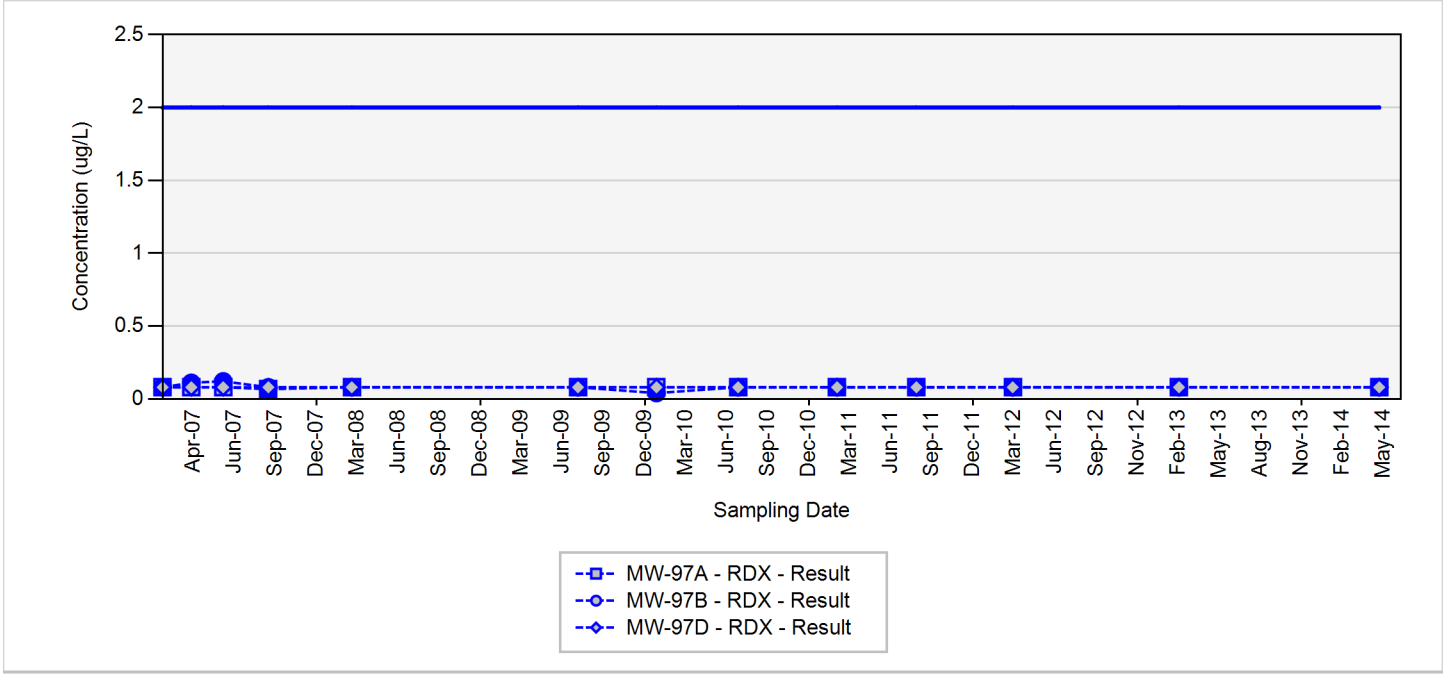
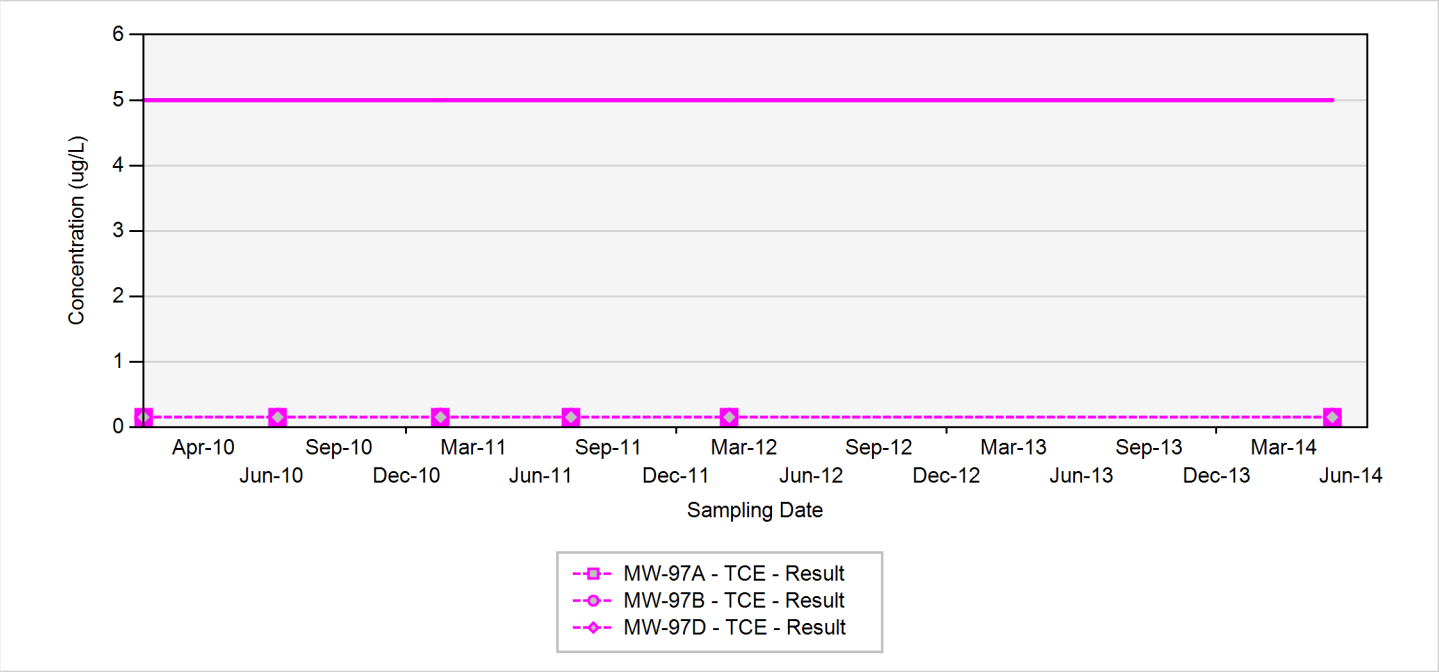
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-97





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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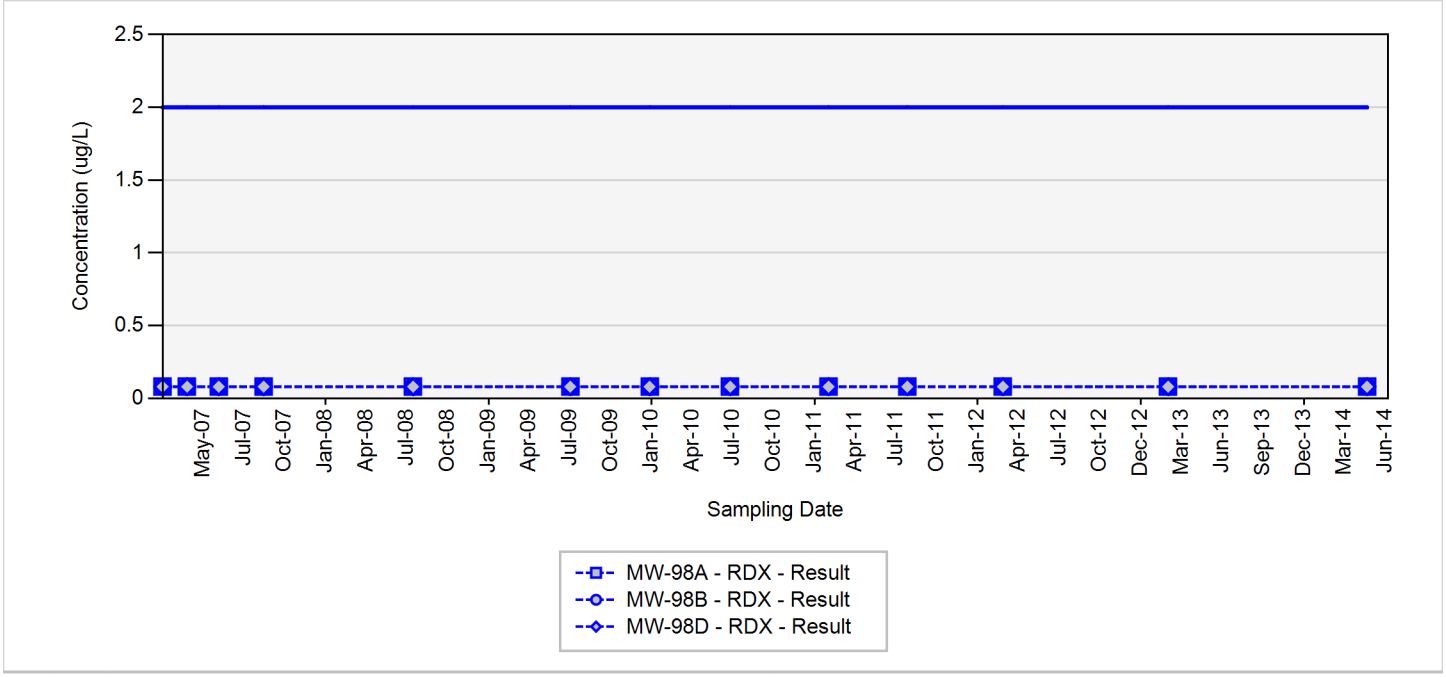
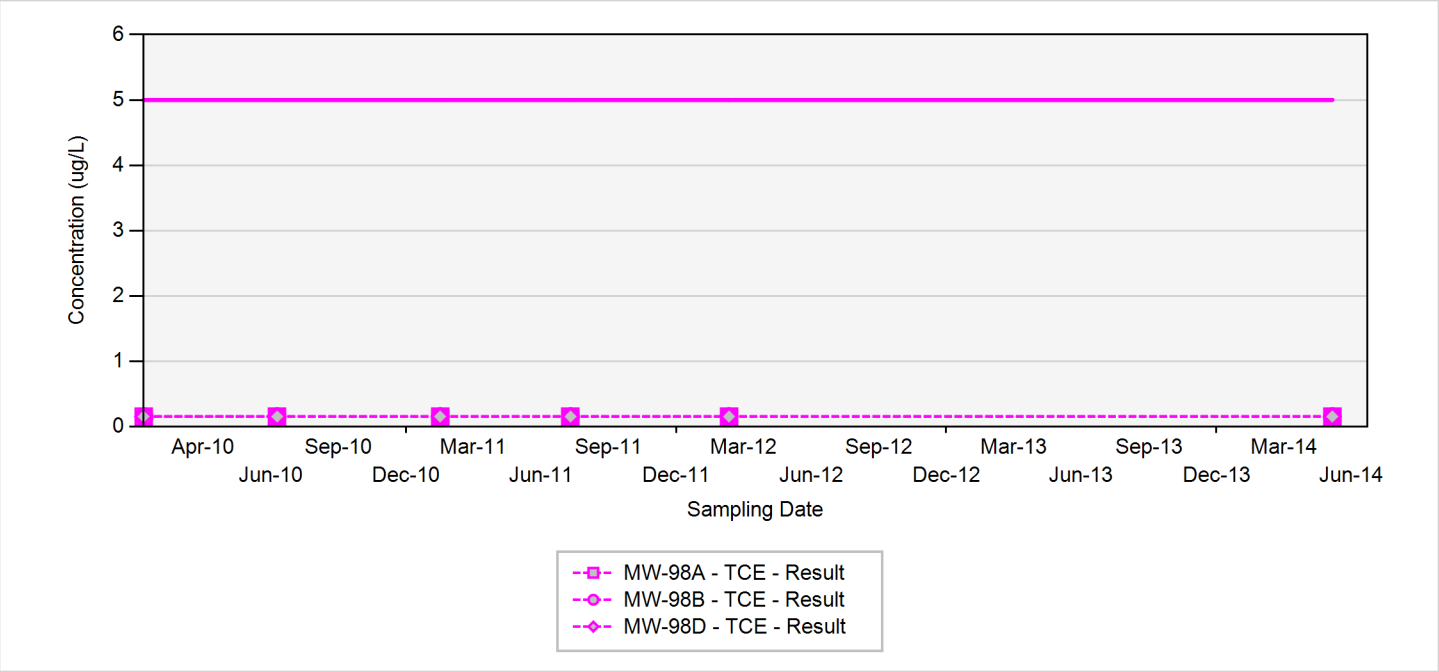
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-98





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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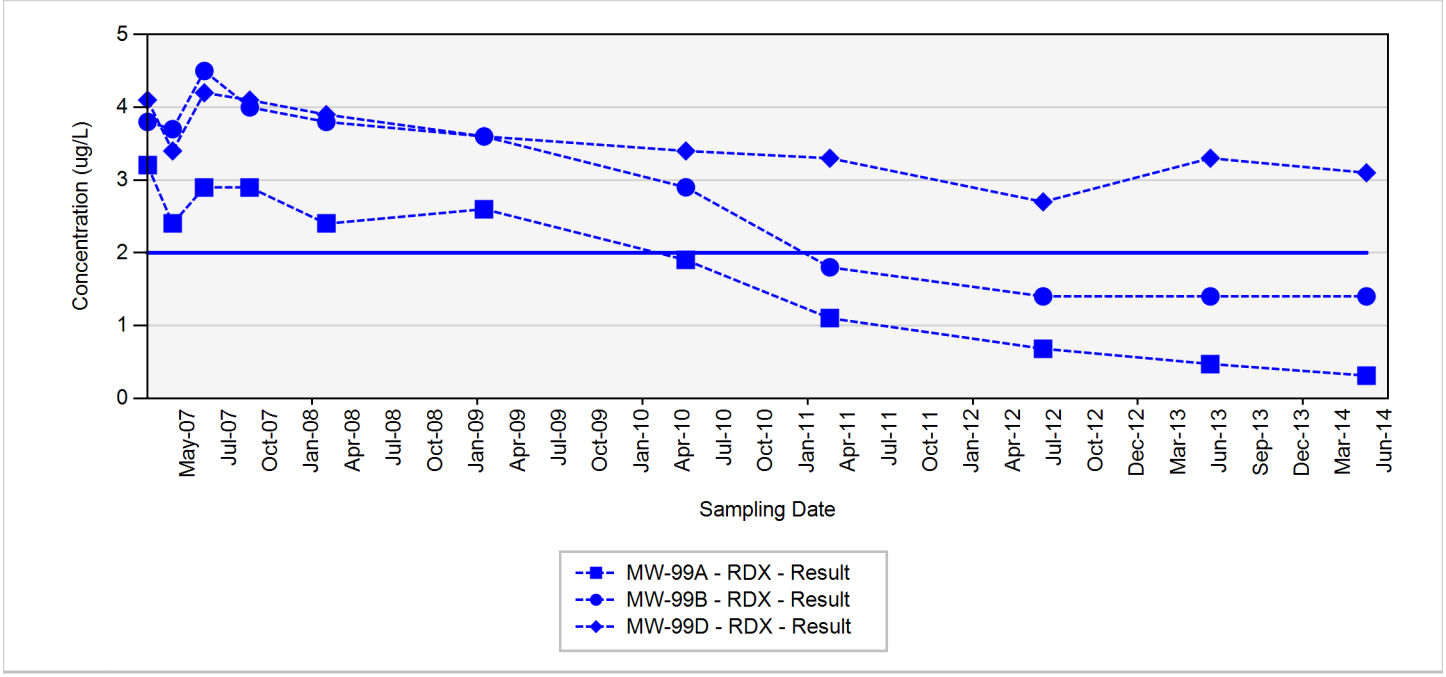
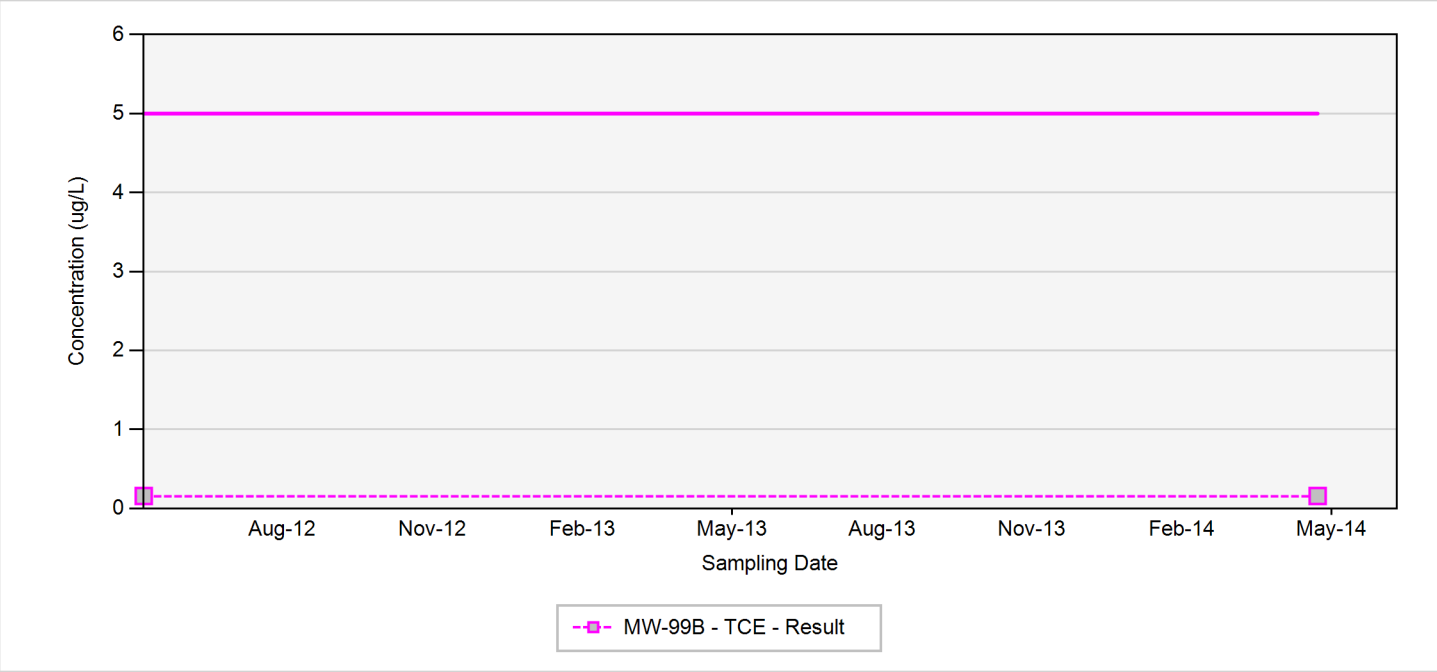
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix A
Concentration Trend Charts for Select Monitoring Wells

MW-99





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

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APPENDIX B

CONCENTRATION TREND CHARTS FOR SELECT WATER SUPPLY WELLS

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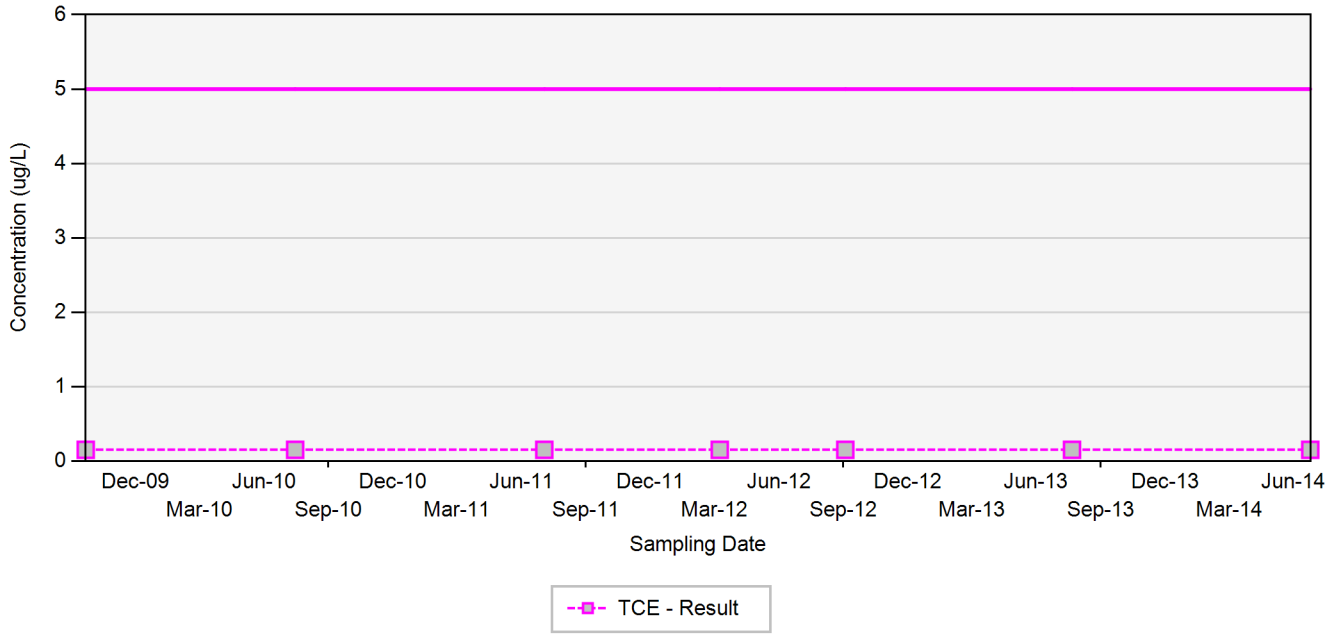
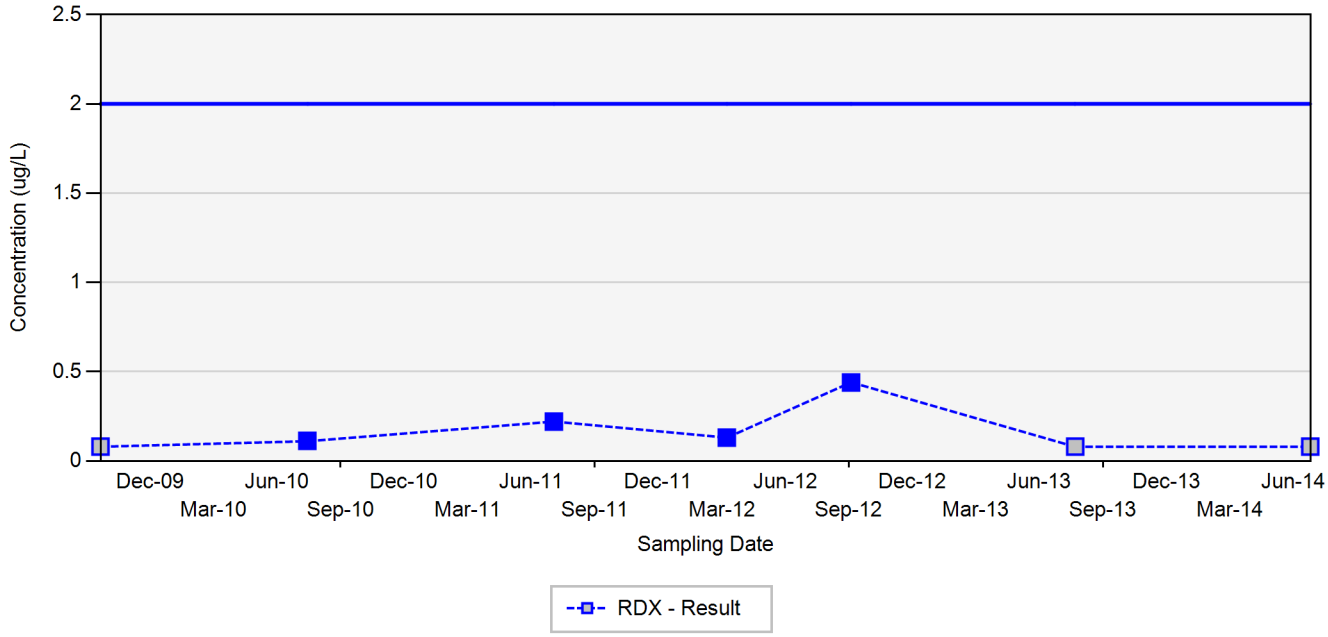
Appendix B
Concentration Trend Charts for Select Water Supply Wells

WSW-114





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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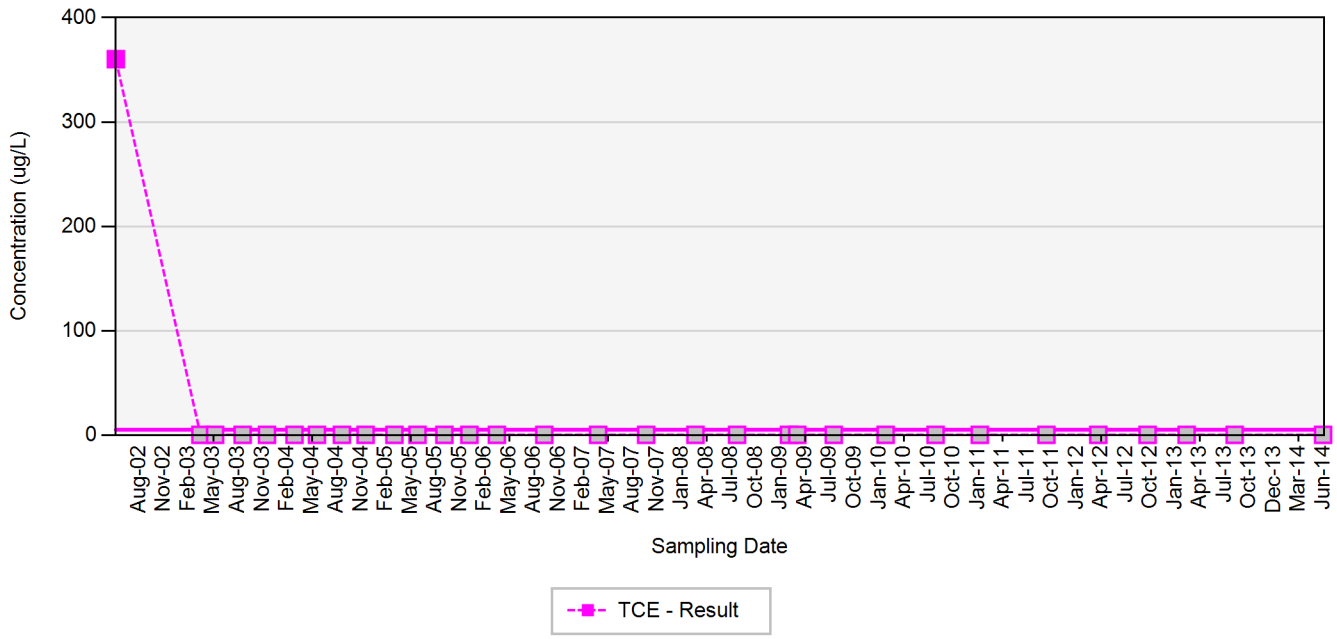
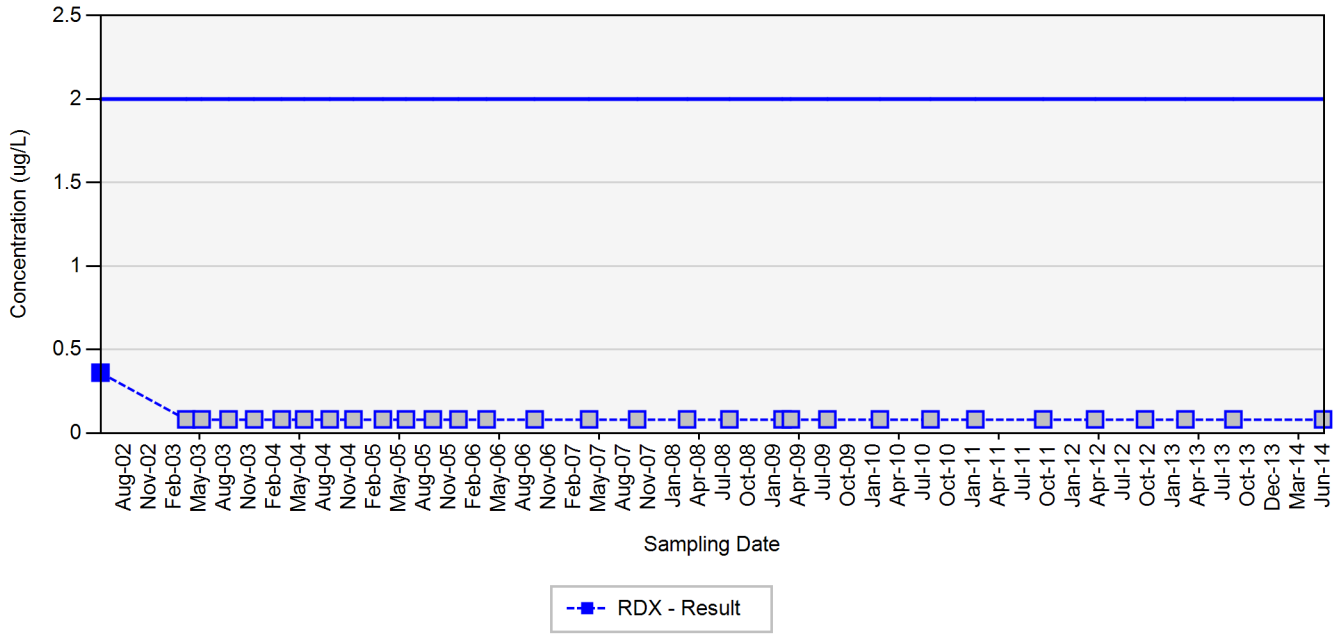
Silver markers indicate non-detected results

Appendix B
Concentration Trend Charts for Select Water Supply Wells

WSW-52C





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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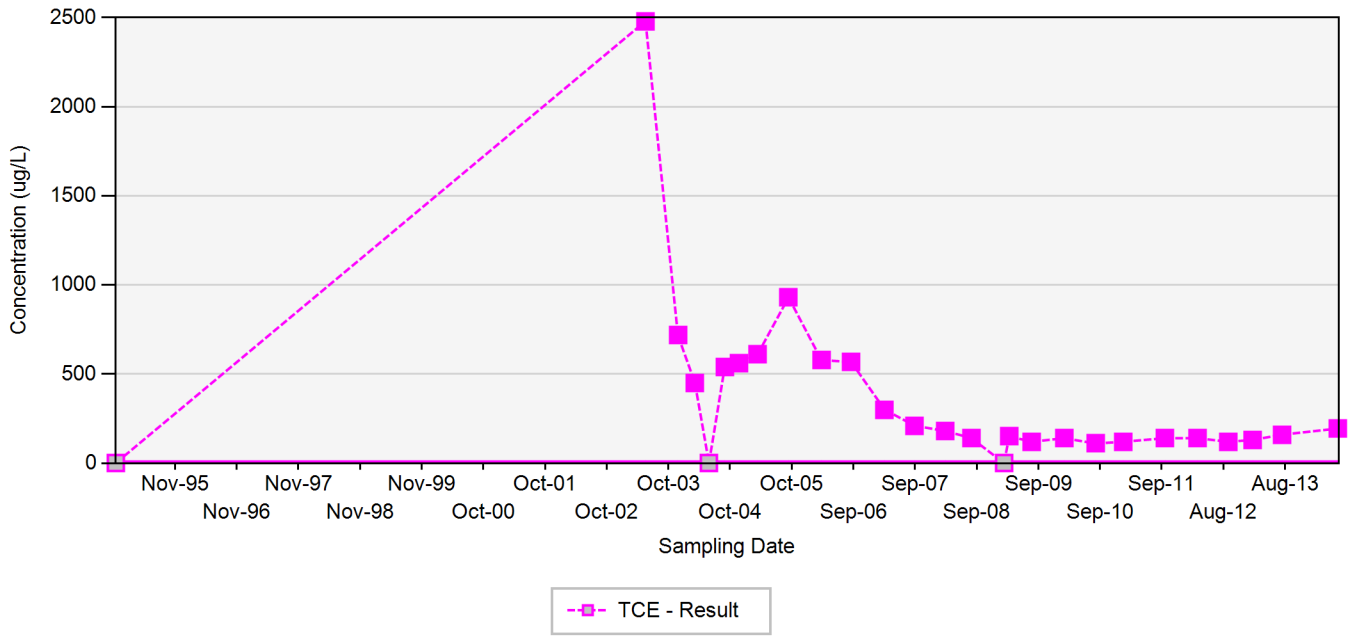
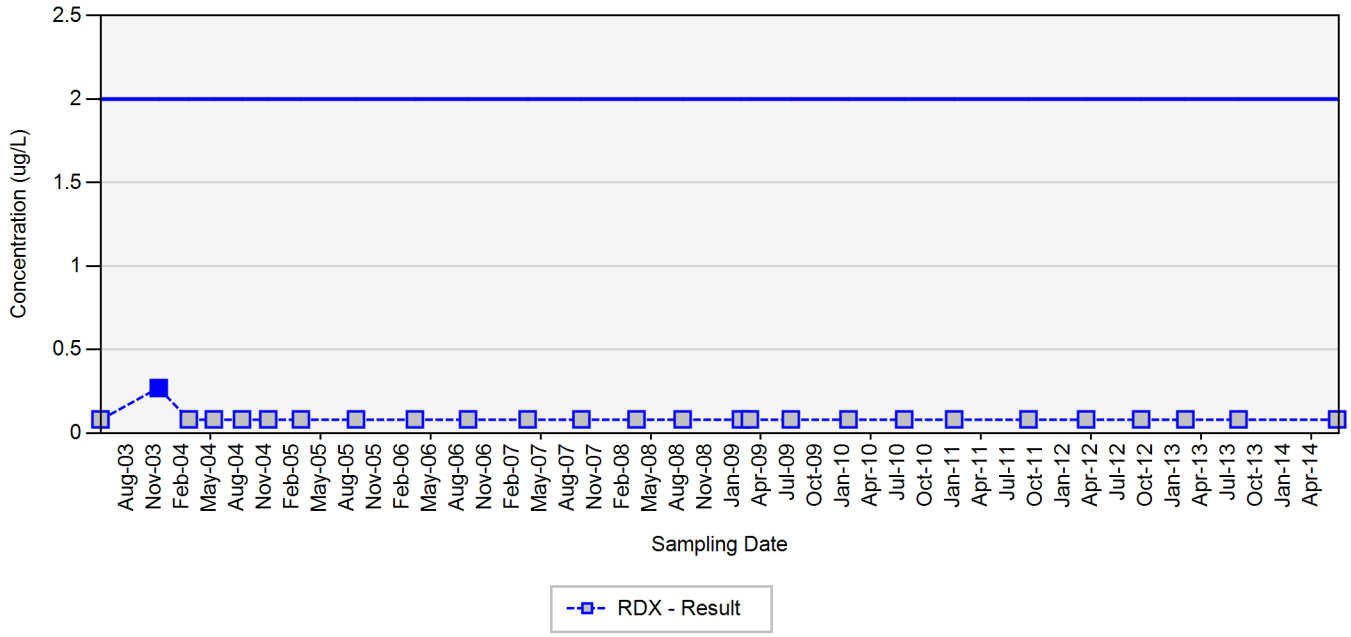
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Appendix B
Concentration Trend Charts for Select Water Supply Wells

WSW-52C-B





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
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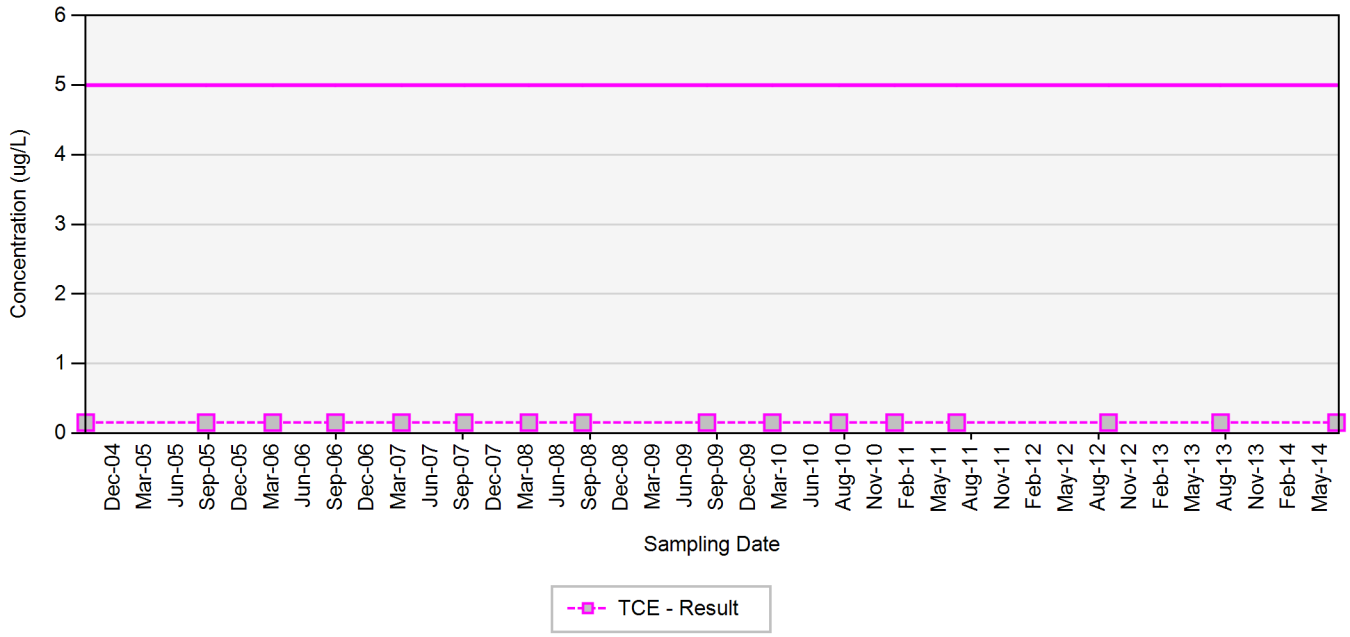
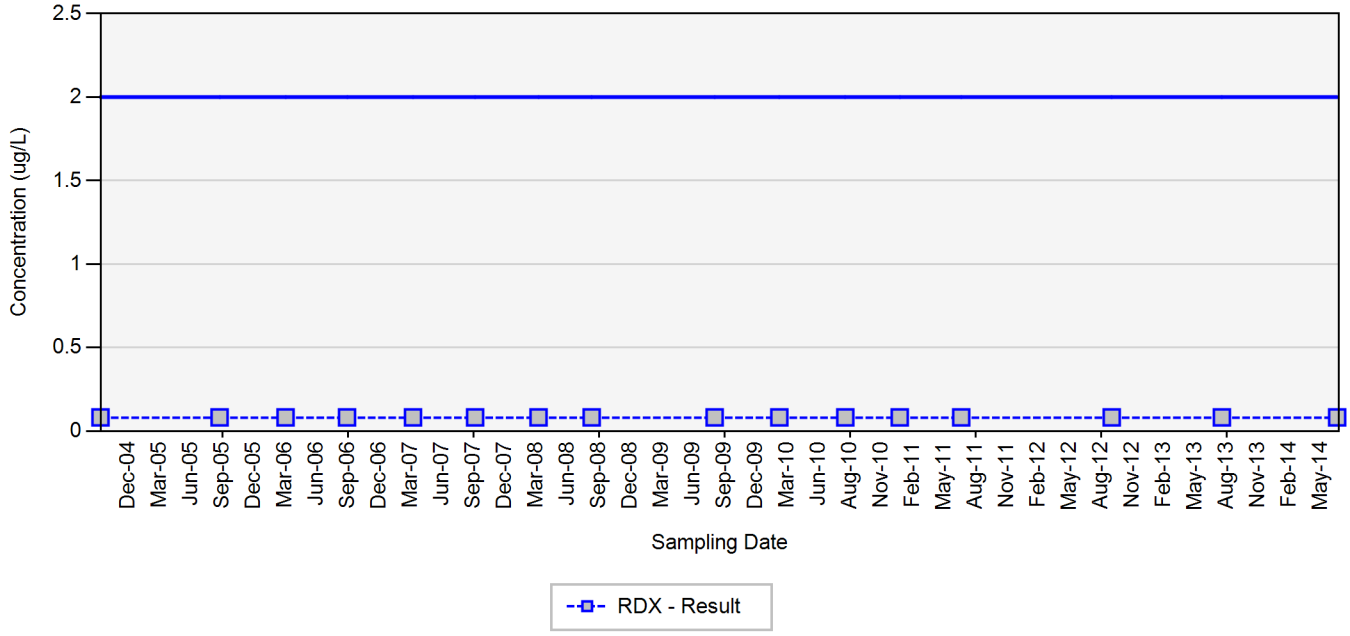
Appendix B
Concentration Trend Charts for Select Water Supply Wells

WSW-97





TCE - trichloroethene
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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ug/L: micrograms per liter
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APPENDIX C

QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014 GROUNDWATER MONITORING PROGRAM SAMPLING EVENT, FORMER NEBRASKA ORDNANCE PLANT
(ON CD)

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HGL
HydroGeoLogic, Inc
Exceeding Expectations

Kansas City Operations

July 15, 2014

U.S. Army Corps of Engineers
Attn: Jacqueline Frazier
601 E. 12th Street
Kansas City, MO 64106

RE: Transmittal of Final Quality Control Summary Report
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska
Contract No. W912DQ-13-D-3000, Task Order No. 0002

Dear Ms. Frazier:

HydroGeoLogic, Inc. (HGL) is pleased to submit an electronic copy (via email) of the Final Quality Control Summary Report for the Second Quarter 2014 Groundwater Monitoring Program Sampling Event at the Former Nebraska Ordnance Plant (NOP) in Mead, Nebraska. This document was prepared in accordance with the Performance Work Statement for the project under Task 3.

Should you have any questions or comments about this document, please contact me at 913-378-2318.

Sincerely,

Lisa Tholl
HGL Project Manager

Enclosures

6340 Glenwood, Suite 200, Building #7, Overland Park, KS 66202
Phone: (913) 317-8860 Fax: (913) 317-8868
www.hgl.com

FINAL
QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014

GROUNDWATER MONITORING PROGRAM SAMPLING EVENT

FORMER NEBRASKA ORDNANCE PLANT
MEAD, NEBRASKA

U.S. Army Corps of Engineers
Kansas City District

Contract W912DQ-13-D-3000
Task Order 0002

July 2014

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FINAL
QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014
GROUNDWATER MONITORING PROGRAM SAMPLING EVENT
FORMER NEBRASKA ORDNANCE PLANT, MEAD, NEBRASKA

1.0 INTRODUCTION

Monitoring well sampling was conducted between May 13 and May 28, 2014, at the former Nebraska Ordnance Plant, near Mead, Nebraska. All sampling activities were performed in accordance with the *Site-Wide Work Plan, Support Services, Operable Unit No. 2 (Groundwater), Former Nebraska Ordnance Plant, Mead, Nebraska* (USACE, 2014). This Quality Control Summary Report presents a summary of the chemical data quality review for the First Quarter 2014 Groundwater Monitoring Program (GMP) sampling event.

GEL Laboratories, LLC (GEL) of Charleston, South Carolina, analyzed the samples for one or more of the following constituents:

- Volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) SW-846 Method 8260B; and
- Explosives by EPA SW-846 Method 8330B.

Table 1.1 presents a complete list of the monitoring wells where samples were collected, the corresponding sample identification (ID) numbers, and the requested analyses for the Second Quarter 2014 sampling event.

The chain of custody records and field notes are included as Appendices A and B, respectively. Appendix C presents an explanation of data validation qualifiers and drinking water standards. Appendix D contains a CD with all analytical data.

2.0 FIELD SAMPLING ACTIVITIES

The field sampling team collected samples for chemical analyses from all of the 181 monitoring wells planned for the Second Quarter 2014 sampling event. Of the 181 wells sampled, 34 were sampled for explosives only, 48 were sampled for VOCs only, and 99 were sampled for both VOCs and explosives. Samples also were collected for quality control (QC) purposes as follows:

- 15 field duplicate samples for explosives,
- 15 field duplicate samples for VOCs,
- 8 matrix spike (MS)/matrix spike duplicate (MSD) pairs for explosives, and
- 13 MS/MSD pairs for VOCs.

Additionally, nine trip blanks were included with the VOC sample shipments.

Table 2.1 summarizes the following information listed for the Second Quarter 2014 monitoring well sampling event:

- Field sample IDs;
- MS/MSD sample information;
- QC field duplicate sample information;
- Dates of sample collection and sample receipt by the laboratory;
- Laboratory sample IDs;
- Laboratory sample delivery group (SDG) numbers; and
- Requested analyses.

3.0 DATA QUALITY EVALUATION PROCEDURES

The following subsections present results of the data quality evaluation. All elements in this evaluation were performed in accordance with Mead Validation Guidelines (USACE, 2007) and the Data Management and Validation protocols provided as Attachment 1 of the Quality Assurance Project Plan (QAPP), provided in the Site-Wide Work Plan (USACE, 2014). Qualifiers were assigned based on laboratory QC criteria. Data quality evaluation results are presented in Table 3.1, the QC outliers for the explosives analyses are presented in Table 3.2, and the QC outliers for VOC analyses are presented in Table 3.3.

3.1 SAMPLE RECEIPT AT THE LABORATORY

The laboratories received all samples in good condition and within the recommended temperature range of 4 ± 2 degrees Celsius (°C) or just below 2°C, but not frozen.

3.2 HOLDING TIMES

The laboratory performed extractions and analyses of all samples within required method-specific holding times with the exception the explosives analysis of sample EMW-0142-042014, SDG 348952. The non-detections for the explosives results associated with this sample were rejected because the analysis was conducted 12 days beyond the 7 day holding time.

3.3 TUNING AND CALIBRATION

Assessment of tune and calibration information is assessed using the laboratory case narrative or summary forms. The laboratory did not report any deviations for the calibration and tuning of pertinent instrumentation in the case narratives. The evaluation of the calibration summary forms indicated that all project criteria were met.

3.4 LABORATORY METHOD BLANKS

A laboratory method blank is an analyte-free matrix that is carried through the entire preparation and analysis sequence for the purpose of identifying potential contamination introduced during preparation and analysis. Method blanks were analyzed for each sample batch for all analyses.

Detections are qualified as nondetect (U) if the concentration in the sample is less than 5 times the concentration in the associated blank. For common laboratory contaminants, detections are qualified U if the concentration in the sample is less than 10 times the concentration in the associated blank. Sample results that are either U, or greater than 5 or 10 times the associated blank result do not require qualification.

The laboratory method blanks were free from contamination in all SDGs.

3.5 TRIP BLANKS

A trip blank is an analyte-free matrix that accompanies samples through the sample collection and transportation process to identify potential VOC contamination. Detections are qualified U if the concentration in the sample is less than 5 times the concentration in the associated blank (10 times for common laboratory contaminants). Sample results that are either U, or greater than 5 or 10 times the blank result do not require qualification.

The trip blanks were free from contamination in all SDGs.

3.6 SURROGATES

Surrogates are compounds not normally found in the environment that are added (spiked) into samples prior to extraction (for extractable methods) or prior to analysis (for non-extractable methods). The percent recovery (%R) of each surrogate is used to assess the success of the sample preparation process for an individual sample.

Results for associated analytes in the affected samples are qualified estimated (J for detects and UJ for non-detects) if the surrogate %Rs are below the laboratory QC limits, but greater than 10 percent. Nondetects are qualified R (rejected) if %Rs are less than 10 percent. Detected results for associated analytes in the affected samples are qualified J if the %Rs are greater than the QC limits; no action is required for nondetects.

All surrogate %Rs were largely within laboratory QC limits; however, one surrogate associated with sample DMW-0125-042014 in SDG 349215 was outside project limits. The appropriate qualifiers were applied by the automated data review (ADR) program as detailed in Table 3.1.

3.7 LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE

A laboratory control sample (LCS) consists of a matrix, similar to that of the field sample, which is spiked with known concentrations of analytes. The LCS %R is a measure of the accuracy of the preparation and analytical methods. The laboratory control sample duplicate (LCSD) is a duplicate preparation and analysis of the LCS. The differences between the LCS and LCSD recoveries are used to calculate the relative percent differences (RPD), which is a measure of the precision of the preparation and analytical methods. LCS samples were analyzed for each sample batch for all analyses.

Results for the affected analyte in the associated samples are qualified J for detects and UJ for non-detects if the LCS %Rs are below the QAPP limits, but greater than 10 percent. Nondetects are qualified R if the %Rs are less than 10 percent. Also, results for the affected analyte in the associated samples are qualified J for detects if the %Rs are greater than the QC limits. No action is required for nondetects. Additionally, results for the affected analyte in the associated samples are qualified J for detects and UJ for nondetects if the RPD exceeds 30 percent.

The %R and RPD results for LCSs and LCSDs met project requirements specified in the QAPP.

3.8 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS and MSD samples were analyzed for both volatile organic analyses and explosives. A field sample is split into three portions (original, MS, and MSD) and known amounts of analytes are added (spiked) into the MS and MSD portions of the sample. The analytical results of these two portions are compared to each other for reproducibility using the RPD. These results are also compared against the un-spiked portion of the sample for %R of the spiked analytes. MS/MSD analyses were performed on the appropriate samples collected as listed on Table 2.1. Several additional explosive MS/MSD analyses were performed by the laboratory.

Results for the affected analyte in the parent sample are qualified J for detects and UJ for nondetects if the MS/MSD %Rs are below the laboratory QC limits, but greater than 10 percent. Nondetects are qualified R if %Rs are less than 10 percent. Also, results for the affected analyte in the parent sample are qualified J for detects if the MS/MSD %Rs are greater than the QC limits. No action is required for nondetects. Additionally, results for the affected analyte in the associated parent samples are qualified J for detects and UJ for nondetects if the RPD exceeds QC limits.

Low MS recovery for TCE was noted in the VOC analyses for the samples in SDG 349215. All qualifications based on low MS recovery are detailed in Table 3.1.

3.9 FIELD DUPLICATES

Field duplicates provide information regarding the reproducibility of analytical results and account for error introduced from handling, shipping, preparing, and analyzing field samples.

The following field duplicate pairs were collected during the Second Quarter 2014 monitoring well sampling event and all were analyzed for VOCs and explosives:

- AMW-002-042014 / AMW-202-042014;
- BMW-003-042014 / AMW-203-042014;
- AMW-008-042014 / AMW-208-042014;
- AMW-0105-042014 / AMW-2105-042014;
- AMW-0109-042014 / AMW-2109-042014;
- BMW-0124-042014 / BMW-2124-042014;
- BMW-0125-042014 / BMW-2125-042014;
- AMW-0141-042014 / AMW-2141-042014;
- AMW-0146-042014/ AMW-2146-042014;
- BMW-0148-042014 / BMW-2148-042014;
- AMW-0149-042014 / AMW-2149-042014;
- AMW-020-042014 / AMW-220-042014;
- AMW-042-042014 / AMW-242-042014;
- AMW-061-042014 / AMW-261-042014; and
- AMW-086-042014 / AMW-286-042014.

The RPD was greater than 30 percent for cis-1,2-dichloroethene (35.9 percent) and trichloroethene (TCE) (119 percent) in the field duplicate pair AMW-0141-042014/AMW-2141-042014, and for 1,3,5-trinitrobenzene (30.6 percent) in the field duplicate pair BMW-0125-042014/BMW-2125-042014. All other duplicate pairs met field duplicate precision criteria (RPD of < 30 percent). Field duplicate results are considered acceptable when one result is not detected and the other result is detected below the limit of quantitation (LOQ) or if both results are less than the LOQ. Results are not qualified based on field duplicate RPD failure.

3.10 DILUTIONS AND RE-ANALYSES

Qualifiers assigned as a result of calibration range exceedance are not used in the calculation of analytical data completeness percentages if there are acceptable results from diluted sample analyses.

All explosives samples were run at 2x dilution as the GEL Standard Operating Procedure (SOP) required 1:1 v/v dilution with high performance liquid chromatography (HPLC) grade

water. One sample required an initial dilution analysis because the concentration of RDX was above the calibration range. Twenty water samples were initially analyzed at a dilution due to high levels of TCE. Twenty-three water samples required a secondary dilution analysis to quantify TCE. One explosives sample was analyzed at a dilution due to a high level of RDX, and one explosives sample was analyzed at a dilution due to high levels of 2,4,6-trinitrotoluene and 1,3,5-trinitrobenzene. Results exceeding the calibrations range are not used for reporting or project decisions when acceptable results from dilutions are available. The final dilution analysis results are reported for the affected analytes. The more concentrated analysis results are reported for all other sample results, where available. Reporting limits were raised as appropriate. It should be noted that only the appropriately diluted results were reported by the laboratory.

3.11 OTHER QUALITY CONTROL PARAMETERS

All detected explosive results were confirmed on a second column. A column comparison between the detected explosive results was made using explosive identification summary forms. The validator confirmed all reported explosive detections for both columns and the intercolumn RPDs.

Detected results with the intercolumn RPDs exceeding 40 percent are qualified J. Table 3.1 presents data quality evaluation results and associated qualified samples. Table 3.2 presents the explosive QC outliers and associated samples for all assigned qualifiers. These qualifiers were not used to determine analytical completeness or project completeness.

3.12 LABORATORY QUALIFIERS

Analytes detected below the LOQ, but above the detection limit were quantified and results were assigned an estimated (J) qualifier by the laboratory. These qualifiers were carried over by the validator and were not used to determine analytical completeness or project completeness (Section 4.0).

4.0 OVERALL ASSESSMENT

The following subsections present the field completeness, analytical completeness, and project completeness determinations for the Second Quarter 2014 monitoring well sampling event.

4.1 FIELD COMPLETENESS

Field completeness for sample collection is assessed by comparing the number of samples collected to the number of samples planned for collection. Field completeness for the monitoring well sampling event was 100 percent for VOCs and explosives. The overall field completeness percentage is 100 percent for the Second Quarter 2014 monitoring well sampling event. All field completeness percentages exceed the field completeness goal of 95 percent. Section 2.0 presents the field sampling activities, including any deviations from planned sampling if applicable. Table 4.1 presents field completeness values for the monitoring well sampling event.

4.2 ANALYTICAL COMPLETENESS

Usable data is a measure of the percentage of usable data points. Usable data points include all non-rejected data. Rejected data points with replacement data do not count against the usable data completeness. Data from one sample, EMW-0142-042014, were rejected for the Second Quarter 2014 monitoring well sampling event because it was analyzed outside the holding time for explosives analysis. The usable data completeness percentage for VOCs is 100 percent and 99.5 percent for explosives. Overall usable data completeness is 99.7 percent, which exceeds the usable data completeness goal of 95 percent. Table 4.2 presents analytical completeness.

4.3 PROJECT COMPLETENESS

Project completeness combines sampling and analytical protocols to assess the project as a whole. Project completeness is assessed by comparing the percentage of samples/measurements that are determined to be usable to the total number of samples/measurements planned. Project completeness is calculated using field completeness and analytical completeness (usable data) percentages. The project completeness percentage of 99.7 percent exceeded the project completeness goal of 90 percent. Table 4.3 presents the project completeness percentage.

5.0 CONCLUSIONS

Data are valid for use, as qualified. Overall field completeness is 99.7 percent, usable data completeness is 99.7 percent, and the overall project completeness is 99.7 percent for the Second Quarter 2014 monitoring well sampling event.

Eighteen sample results for TCE and 11 sample results for RDX were reported from a dilution due to calibration range exceedance. These results do not affect analytical or project completeness. Low MS recovery of TCE was not due to extreme discrepancies and is still considered usable, and the overall impact on data quality is minimal. The qualifications do not affect analytical or project completeness.

6.0 REFERENCES

USACE, 2007, Mead Validation Guidelines (approved by USACE 2007).

USACE, 2014. Site-Wide Work Plan, Former Nebraska Ordnance Plant, Mead, Nebraska, Prepared by HGL under Contract W912DQ-13-D-3000, Task Order No. 0002. March.

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TABLES

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Table 1.1
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Monitoring Well Locations	Sample Identification	Analyses
MW-02A	AMW-002-042014	Explosives, VOCs
MW-02B	BMW-002-042014	Explosives, VOCs
MW-03A	AMW-003-042014	Explosives, VOCs
MW-03B	BMW-003-042014	Explosives, VOCs
MW-08A	AMW-008-042014	Explosives, VOCs
MW-08B	BMW-008-042014	Explosives, VOCs
MW-09A	AMW-009-042014	VOCs
MW-09B	BMW-009-042014	VOCs
MW-09D	DMW-009-042014	VOCs
MW-100A	AMW-0100-042014	Explosives, VOCs
MW-100B	BMW-0100-042014	Explosives, VOCs
MW-100D	DMW-0100-042014	Explosives, VOCs
MW-101A	AMW-0101-042014	Explosives, VOCs
MW-101B	BMW-0101-042014	Explosives, VOCs
MW-101D	DMW-0101-042014	Explosives, VOCs
MW-102A	AMW-0102-042014	VOCs
MW-102B	BMW-0102-042014	VOCs
MW-103A	AMW-0103-042014	VOCs
MW-103B	BMW-0103-042014	VOCs
MW-103D	DMW-0103-042014	VOCs
MW-104A	AMW-0104-042014	Explosives, VOCs
MW-104B	BMW-0104-042014	Explosives, VOCs
MW-104D	DMW-0104-042014	Explosives, VOCs
MW-104O	OMW-0104-042014	Explosives, VOCs
MW-105A	AMW-0105-042014	Explosives, VOCs
MW-105B	BMW-0105-042014	Explosives, VOCs
MW-105O	OMW-0105-042014	Explosives, VOCs
MW-109A	AMW-0109-042014	Explosives, VOCs
MW-109B	BMW-0109-042014	Explosives, VOCs
MW-109O	OMW-0109-042014	Explosives, VOCs

Table 1.1 (Continued)
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Monitoring Well Locations	Sample Identification	Analyses
MW-11	MW-011-042014	Explosives
MW-111A	AMW-0111-042014	Explosives, VOCs
MW-111B	BMW-0111-042014	Explosives, VOCs
MW-111O	OMW-0111-042014	Explosives, VOCs
MW-124A	AMW-0124-042014	Explosives, VOCs
MW-124B	BMW-0124-042014	Explosives, VOCs
MW-124D	DMW-0124-042014	Explosives, VOCs
MW-125A	AMW-0125-042014	VOCs
MW-125B	BMW-0125-042014	VOCs
MW-125D	DMW-0125-042014	VOCs
MW-126A	AMW-0126-042014	VOCs
MW-126B	BMW-0126-042014	VOCs
MW-126D	DMW-0126-042014	VOCs
MW-127A	AMW-0127-042014	VOCs
MW-127B	BMW-0127-042014	VOCs
MW-127E	EMW-0127-042014	VOCs
MW-128A	AMW-0128-042014	Explosives
MW-128B	BMW-0128-042014	Explosives
MW-129A	AMW-0129-042014	Explosives
MW-129B	BMW-0129-042014	Explosives
MW-129D	DMW-0129-042014	Explosives
MW-130A	AMW-0130-042014	Explosives
MW-130B	BMW-0130-042014	Explosives
MW-130D	DMW-0130-042014	Explosives
MW-131A	AMW-0131-042014	Explosives
MW-131B	BMW-0131-042014	Explosives
MW-131D	DMW-0131-042014	Explosives
MW-136A	AMW-0136-042014	VOCs
MW-136B	BMW-0136-042014	VOCs
MW-136D	DMW-0136-042014	VOCs
MW-136E	EMW-0136-042014	VOCs

Table 1.1 (Continued)
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Monitoring Well Locations	Sample Identification	Analyses
MW-137A	AMW-0137-042014	VOCs
MW-137B	BMW-0137-042014	VOCs
MW-137E	EMW-0137-042014	VOCs
MW-138A	AMW-0138-042014	VOCs
MW-138B	BMW-0138-042014	VOCs
MW-139A	AMW-0139-042014	VOCs
MW-139B	BMW-0139-042014	VOCs
MW-140A	AMW-0140-042014	VOCs
MW-140B	BMW-0140-042014	VOCs
MW-140D	DMW-0140-042014	VOCs
MW-140O	OMW-0140-042014	VOCs
MW-141A	AMW-0141-042014	Explosives, VOCs
MW-141B	BMW-0141-042014	Explosives, VOCs
MW-141E	EMW-0141-042014	Explosives, VOCs
MW-142A	AMW-0142-042014	Explosives, VOCs
MW-142E	EMW-0142-042014	Explosives, VOCs
MW-143B	BMW-0143-042014	Explosives, VOCs
MW-144A	AMW-0144-042014	Explosives
MW-144E	EMW-0144-042014	Explosives
MW-145A	AMW-0145-042014	Explosives
MW-145E	EMW-0145-042014	Explosives
MW-146A	AMW-0146-042014	Explosives, VOCs
MW-146B	BMW-0146-042014	Explosives, VOCs
MW-148B	BMW-0148-042014	Explosives, VOCs
MW-149A	AMW-0149-042014	Explosives, VOCs
MW-150A	AMW-0150-042014	Explosives, VOCs
MW-150B	BMW-0150-042014	Explosives, VOCs
MW-151A	AMW-0151-042014	Explosives, VOCs
MW-151B	BMW-0151-042014	Explosives, VOCs
MW-152B	BMW-0152-042014	Explosives, VOCs
MW-153A	AMW-0153-042014	Explosives, VOCs
MW-153B	BMW-0153-042014	Explosives, VOCs
MW-154A	AMW-0154-042014	Explosives, VOCs

Table 1.1 (Continued)
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Monitoring Well Locations	Sample Identification	Analyses
MW-154B	BMW-0154-042014	Explosives, VOCs
MW-155A	AMW-0155-042014	Explosives, VOCs
MW-155E	EMW-0155-042014	Explosives, VOCs
MW-156A	AMW-0156-042014	Explosives, VOCs
MW-156B	BMW-0156-042014	Explosives, VOCs
MW-157A	AMW-0157-042014	Explosives, VOCs
MW-157B	BMW-0157-042014	Explosives, VOCs
MW-180A	AMW-0180-042014	Explosives
MW-180E	EMW-0180-042014	Explosives
MW-18A	AMW-018-042014	Explosives, VOCs
MW-18B	BMW-018-042014	Explosives, VOCs
MW-18C	CMW-018-042014	Explosives, VOCs
MW-20A	AMW-020-042014	Explosives, VOCs
MW-20B	BMW-020-042014	Explosives, VOCs
MW-20C	CMW-020-042014	Explosives, VOCs
MW-21A	AMW-021-042014	Explosives, VOCs
MW-21B	BMW-021-042014	Explosives, VOCs
MW-21D	DMW-021-042014	Explosives, VOCs
MW-24A	AMW-024-042014	Explosives, VOCs
MW-24B	BMW-024-042014	Explosives, VOCs
MW-25A	AMW-025-042014	Explosives, VOCs
MW-25B	BMW-025-042014	Explosives, VOCs
MW-28A	AMW-028-042014	Explosives
MW-28B	BMW-028-042014	Explosives
MW-28D	DMW-028-042014	Explosives
MW-29A	AMW-029-042014	Explosives
MW-29B	BMW-029-042014	Explosives
MW-32A	AMW-032-042014	Explosives
MW-32B	BMW-032-042014	Explosives
MW-32D	DMW-032-042014	Explosives

Table 1.1 (Continued)
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Monitoring Well Locations	Sample Identification	Analyses
MW-33A	AMW-033-042014	Explosives
MW-33B	BMW-033-042014	Explosives
MW-33D	DMW-033-042014	Explosives
MW-40A	AMW-040-042014	VOCs
MW-40B	BMW-040-042014	VOCs
MW-42A	AMW-042-042014	Explosives, VOCs
MW-42B	BMW-042-042014	Explosives, VOCs
MW-42D	DMW-042-042014	Explosives, VOCs
MW-43A	AMW-043-042014	Explosives, VOCs
MW-43B	BMW-043-042014	Explosives, VOCs
MW-43D	DMW-043-042014	Explosives, VOCs
MW-44A	AMW-044-042014	Explosives, VOCs
MW-44B	BMW-044-042014	Explosives, VOCs
MW-44D	DMW-044-042014	Explosives, VOCs
MW-61A	AMW-061-042014	Explosives, VOCs
MW-61B	BMW-061-042014	Explosives, VOCs
MW-61D	DMW-061-042014	Explosives, VOCs
MW-65B	BMW-065-042014	Explosives
MW-72A	AMW-072-042014	VOCs
MW-72B	BMW-072-042014	VOCs
MW-73A	AMW-073-042014	VOCs
MW-73B	BMW-073-042014	VOCs
MW-78A	AMW-078-042014	VOCs
MW-78B	BMW-078-042014	VOCs
MW-82A	AMW-082-042014	Explosives, VOCs
MW-82B	BMW-082-042014	Explosives, VOCs
MW-82D	DMW-082-042014	Explosives, VOCs
MW-83B	BMW-083-042014	Explosives, VOCs
MW-86A	AMW-086-042014	Explosives, VOCs
MW-86B	BMW-086-042014	Explosives, VOCs
MW-86D	DMW-086-042014	Explosives, VOCs

Table 1.1 (Continued)
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Monitoring Well Locations	Sample Identification	Analyses
MW-89A	AMW-089-042014	VOCs
MW-89B	BMW-089-042014	VOCs
MW-89D	DMW-089-042014	VOCs
MW-89E	EMW-089-042014	Explosives, VOCs
MW-90A	AMW-090-042014	Explosives, VOCs
MW-90B	BMW-090-042014	Explosives, VOCs
MW-90D	DMW-090-042014	Explosives, VOCs
MW-91A	AMW-091-042014	VOCs
MW-91B	BMW-091-042014	VOCs
MW-91D	DMW-091-042014	VOCs
MW-93A	AMW-093-042014	VOCs
MW-93B	BMW-093-042014	VOCs
MW-94A	AMW-094-042014	Explosives
MW-94B	BMW-094-042014	Explosives
MW-96A	AMW-096-042014	Explosives, VOCs
MW-96B	BMW-096-042014	Explosives, VOCs
MW-96D	DMW-096-042014	Explosives, VOCs
MW-97A	AMW-097-042014	Explosives, VOCs
MW-97B	BMW-097-042014	Explosives, VOCs
MW-97D	DMW-097-042014	Explosives, VOCs
MW-98A	AMW-098-042014	Explosives, VOCs
MW-98B	BMW-098-042014	Explosives, VOCs
MW-98D	DMW-098-042014	Explosives, VOCs
MW-99A	AMW-099-042014	Explosives
MW-99B	BMW-099-042014	Explosives, VOCs
MW-99D	DMW-099-042014	Explosives

Notes:

VOCs analysis is by Method SW8260B Volatile Organic Compounds by Capillary gas chromatography/mass spectrometry

Explosives analysis is by SW8330B Nitroaromatics and Nitramines by high performance liquid chromatography

Table 2.1
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples								
AMW-042-042014			5/13/2014	6/2/2014	348763004	348757-1	●	●
		AMW-242-042014	5/13/2014	6/2/2014	348763005	348757-1	●	●
	BMW-042-042014		5/13/2014	6/2/2014	1203089924	348757-1	●	
	BMW-042-042014		5/13/2014	6/2/2014	1203089925	348757-1	●	
	BMW-042-042014		5/13/2014	6/2/2014	1203090535	348757-1		●
	BMW-042-042014		5/13/2014	6/2/2014	1203090536	348757-1		●
BMW-042-042014			5/13/2014	6/2/2014	348763006	348757-1	●	●
DMW-042-042014			5/13/2014	6/2/2014	348763007	348757-1	●	●
AMW-043-042014			5/13/2014	6/2/2014	348763008	348757-1	●	●
BMW-043-042014			5/13/2014	6/2/2014	348763009	348757-1	●	●
DMW-043-042014			5/13/2014	6/2/2014	348763010	348757-1	●	●
AMW-018-042014			5/13/2014	6/2/2014	348763001	348757-1	●	●
BMW-018-042014			5/13/2014	6/2/2014	348763002	348757-1	●	●
CMW-018-042014			5/13/2014	6/2/2014	348763003	348757-1	●	●
BMW-0152-042014			5/13/2014	6/2/2014	348757013	348757	●	●
	AMW-0151-042014		5/13/2014	6/2/2014	1203090538	348757		●
	AMW-0151-042014		5/13/2014	6/2/2014	1203090539	348757		●
AMW-0151-042014			5/13/2014	6/2/2014	348757011	348757	●	●
BMW-0151-042014			5/13/2014	6/2/2014	348757012	348757	●	●
AMW-0153-042014			5/13/2014	6/2/2014	348757014	348757	●	●
BMW-0153-042014			5/13/2014	6/2/2014	348757015	348757	●	●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
AMW-0154-042014			5/13/2014	6/2/2014	348757016	348757	●	●
BMW-0154-042014			5/13/2014	6/2/2014	348757017	348757	●	●
AMW-0155-042014			5/13/2014	6/2/2014	348757018	348757	●	●
EMW-0155-042014			5/13/2014	6/2/2014	348757019	348757	●	●
AMW-0130-042014			5/13/2014	6/2/2014	348757005	348757	●	
BMW-0130-042014			5/13/2014	6/2/2014	348757006	348757	●	
DMW-0130-042014			5/13/2014	6/2/2014	348757007	348757	●	
AMW-0129-042014			5/13/2014	6/2/2014	348757002	348757	●	
BMW-0129-042014			5/13/2014	6/2/2014	348757003	348757	●	
DMW-0129-042014			5/13/2014	6/2/2014	348757004	348757	●	
AMW-099-042014			5/13/2014	6/2/2014	348763011	348757-1	●	
BMW-099-042014			5/13/2014	6/2/2014	348763012	348757-1	●	●
DMW-099-042014			5/13/2014	6/2/2014	348763013	348757-1	●	
AMW-0131-042014			5/13/2014	6/2/2014	348757008	348757	●	
BMW-0131-042014			5/13/2014	6/2/2014	348757009	348757	●	
DMW-0131-042014			5/13/2014	6/2/2014	348757010	348757	●	
AMW-0128-042014			5/14/2014	6/3/2014	348848005	348848	●	
BMW-0128-042014			5/14/2014	6/3/2014	348848006	348848	●	
	AMW-0100-042014		5/14/2014	6/3/2014	1203091167	348848		●
	AMW-0100-042014		5/14/2014	6/3/2014	1203091168	348848		●
AMW-0100-042014			5/14/2014	6/3/2014	348848002	348848	●	●
BMW-0100-042014			5/14/2014	6/3/2014	348848003	348848	●	●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
DMW-0100-042014			5/14/2014	6/3/2014	348848004	348848	●	●
AMW-098-042014			5/14/2014	6/3/2014	348853003	348848-1	●	●
BMW-098-042014			5/14/2014	6/3/2014	348853004	348848-1	●	●
DMW-098-042014			5/14/2014	6/3/2014	348853005	348848-1	●	●
AMW-097-042014			5/14/2014	6/3/2014	348848019	348848	●	●
BMW-097-042014			5/14/2014	6/3/2014	348853001	348848-1	●	●
DMW-097-042014			5/14/2014	6/3/2014	348853002	348848-1	●	●
BMW-083-042014			5/14/2014	6/3/2014	348848015	348848	●	●
AMW-096-042014			5/14/2014	6/3/2014	348848016	348848	●	●
BMW-096-042014			5/14/2014	6/3/2014	348848017	348848	●	●
DMW-096-042014			5/14/2014	6/3/2014	348848018	348848	●	●
AMW-0180-042014			5/14/2014	6/3/2014	348848010	348848	●	
EMW-0180-042014			5/14/2014	6/3/2014	348848011	348848	●	
AMW-0146-042014			5/14/2014	6/3/2014	348848007	348848	●	●
		AMW-2146-042014	5/14/2014	6/3/2014	348848008	348848	●	●
BMW-0146-042014			5/14/2014	6/3/2014	348848009	348848	●	●
AMW-082-042014			5/14/2014	6/3/2014	348848012	348848	●	●
BMW-082-042014			5/14/2014	6/3/2014	348848013	348848	●	●
DMW-082-042014			5/14/2014	6/3/2014	348848014	348848	●	●
AMW-020-042014			5/15/2014	6/9/2014	348952016	348952	●	●
		AMW-220-042014	5/15/2014	6/9/2014	348952017	348952	●	●
	BMW-020-042014		5/15/2014	6/9/2014	1203091519	348952	●	

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
	BMW-020-042014		5/15/2014	6/9/2014	1203091520	348952	●	
	BMW-020-042014		5/15/2014	6/9/2014	1203093326	348952		●
	BMW-020-042014		5/15/2014	6/9/2014	1203093327	348952		●
BMW-020-042014			5/15/2014	6/9/2014	348952018	348952	●	●
	CMW-020-042014		5/15/2014	6/9/2014	1203094245	348952-1		●
	CMW-020-042014		5/15/2014	6/9/2014	1203094246	348952-1		●
CMW-020-042014			5/15/2014	6/9/2014	348953002	348952-1	●	●
AMW-0101-042014			5/15/2014	6/9/2014	348952002	348952	●	●
BMW-0101-042014			5/15/2014	6/9/2014	348952003	348952	●	●
DMW-0101-042014			5/15/2014	6/9/2014	348952004	348952	●	●
AMW-093-042014			5/15/2014	6/9/2014	348953013	348952-1		●
BMW-093-042014			5/15/2014	6/9/2014	348953014	348952-1		●
AMW-091-042014			5/15/2014	6/9/2014	348953010	348952-1		●
BMW-091-042014			5/15/2014	6/9/2014	348953011	348952-1		●
DMW-091-042014			5/15/2014	6/9/2014	348953012	348952-1		●
AMW-090-042014			5/15/2014	6/9/2014	348953007	348952-1	●	●
BMW-090-042014			5/15/2014	6/9/2014	348953008	348952-1	●	●
DMW-090-042014			5/15/2014	6/9/2014	348953009	348952-1	●	●
AMW-089-042014			5/15/2014	6/9/2014	348953003	348952-1		●
BMW-089-042014			5/15/2014	6/9/2014	348953004	348952-1		●
DMW-089-042014			5/15/2014	6/9/2014	348953005	348952-1		●
EMW-089-042014			5/15/2014	6/9/2014	348953006	348952-1	●	●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
AMW-0142-042014			5/15/2014	6/9/2014	348952005	348952	●	●
EMW-0142-042014			5/15/2014	6/9/2014	348952006	348952	●	●
AMW-0145-042014			5/15/2014	6/9/2014	348952010	348952	●	
EMW-0145-042014			5/15/2014	6/9/2014	348952011	348952	●	
AMW-0144-042014			5/15/2014	6/9/2014	348952008	348952	●	
EMW-0144-042014			5/15/2014	6/9/2014	348952009	348952	●	
BMW-0148-042014			5/15/2014	6/9/2014	348952012	348952	●	●
		BMW-2148-042014	5/15/2014	6/9/2014	348952013	348952	●	●
AMW-0149-042014			5/15/2014	6/9/2014	348952014	348952	●	●
		AMW-2149-042014	5/15/2014	6/9/2014	348952015	348952	●	●
BMW-0143-042014			5/15/2014	6/9/2014	348952007	348952	●	●
AMW-0157-042014			5/16/2014	6/4/2014	348954004	348954	●	●
BMW-0157-042014			5/16/2014	6/4/2014	348954005	348954	●	●
	AMW-0156-042014		5/16/2014	6/4/2014	1203094248	348954		●
	AMW-0156-042014		5/16/2014	6/4/2014	1203094249	348954		●
AMW-0156-042014			5/16/2014	6/4/2014	348954002	348954	●	●
BMW-0156-042014			5/16/2014	6/4/2014	348954003	348954	●	●
AMW-044-042014			5/16/2014	6/4/2014	348954006	348954	●	●
BMW-044-042014			5/16/2014	6/4/2014	348954007	348954	●	●
DMW-044-042014			5/16/2014	6/4/2014	348954008	348954	●	●
AMW-086-042014			5/16/2014	6/4/2014	348954009	348954	●	●
		AMW-286-042014	5/16/2014	6/4/2014	348954010	348954	●	●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
BMW-086-042014			5/16/2014	6/4/2014	348954011	348954	●	●
DMW-086-042014			5/16/2014	6/4/2014	348954012	348954	●	●
AMW-003-042014			5/19/2014	6/11/2014	349215005	349215	●	●
		AMW-203-042014	5/19/2014	6/11/2014	349215006	349215	●	●
	BMW-003-042014		5/19/2014	6/11/2014	1203094749	349215-1	●	
	BMW-003-042014		5/19/2014	6/11/2014	1203094750	349215-1	●	
	BMW-003-042014		5/19/2014	6/11/2014	1203098906	349215-1		●
	BMW-003-042014		5/19/2014	6/11/2014	1203098907	349215-1		●
BMW-003-042014			5/19/2014	6/11/2014	349217001	349215-1	●	●
AMW-002-042014			5/19/2014	6/11/2014	349215002	349215	●	●
		AMW-202-042014	5/19/2014	6/11/2014	349215003	349215	●	●
	BMW-002-042014		5/19/2014	6/11/2014	1203094745	349215	●	
	BMW-002-042014		5/19/2014	6/11/2014	1203094746	349215	●	
	BMW-002-042014		5/19/2014	6/11/2014	1203098085	349215		●
	BMW-002-042014		5/19/2014	6/11/2014	1203098086	349215		●
BMW-002-042014			5/19/2014	6/11/2014	349215004	349215	●	●
AMW-0127-042014			5/19/2014	6/11/2014	349217005	349215-1	●	●
BMW-0127-042014			5/19/2014	6/11/2014	349217006	349215-1	●	●
EMW-0127-042014			5/19/2014	6/11/2014	349217007	349215-1	●	●
AMW-0126-042014			5/19/2014	6/11/2014	349217002	349215-1	●	●
BMW-0126-042014			5/19/2014	6/11/2014	349217003	349215-1	●	●
DMW-0126-042014			5/19/2014	6/11/2014	349217004	349215-1	●	●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
AMW-029-042014			5/19/2014	6/11/2014	349217011	349215-1	●	
BMW-029-042014			5/19/2014	6/11/2014	349217012	349215-1	●	
AMW-0125-042014			5/19/2014	6/11/2014	349215011	349215	●	●
BMW-0125-042014			5/19/2014	6/11/2014	349215012	349215	●	●
		BMW-2125-042014	5/19/2014	6/11/2014	349215013	349215	●	●
DMW-0125-042014			5/19/2014	6/11/2014	349215014	349215	●	●
AMW-0124-042014			5/19/2014	6/11/2014	349215007	349215	●	●
BMW-0124-042014			5/19/2014	6/11/2014	349215008	349215	●	●
		BMW-2124-042014	5/19/2014	6/11/2014	349215009	349215	●	●
DMW-0124-042014			5/19/2014	6/11/2014	349215010	349215	●	●
AMW-021-042014			5/19/2014	6/11/2014	349217008	349215-1	●	●
BMW-021-042014			5/19/2014	6/11/2014	349217009	349215-1	●	●
DMW-021-042014			5/19/2014	6/11/2014	349217010	349215-1	●	●
AMW-032-042014			5/20/2014	6/11/2014	349233014	349233	●	
BMW-032-042014			5/20/2014	6/11/2014	349233015	349233	●	
DMW-032-042014			5/20/2014	6/11/2014	349233016	349233	●	
AMW-033-042014			5/20/2014	6/11/2014	349233017	349233	●	
BMW-033-042014			5/20/2014	6/11/2014	349233018	349233	●	
DMW-033-042014			5/20/2014	6/11/2014	349233019	349233	●	
BMW-065-042014			5/20/2014	6/11/2014	349244001	349233-1	●	
AMW-024-042014			5/20/2014	6/11/2014	349233007	349233	●	●
BMW-024-042014			5/20/2014	6/11/2014	349233008	349233	●	●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
AMW-0141-042014			5/20/2014	6/11/2014	349233003	349233	●	●
		AMW-2141-042014	5/20/2014	6/11/2014	349233004	349233	●	●
BMW-0141-042014			5/20/2014	6/11/2014	349233005	349233	●	●
EMW-0141-042014			5/20/2014	6/11/2014	349233006	349233	●	●
AMW-025-042014			5/20/2014	6/11/2014	349233009	349233	●	●
BMW-025-042014			5/20/2014	6/11/2014	349233010	349233	●	●
AMW-094-042014			5/20/2014	6/11/2014	349244002	349233-1	●	
BMW-094-042014			5/20/2014	6/11/2014	349244003	349233-1	●	
AMW-028-042014			5/20/2014	6/11/2014	349233011	349233	●	
BMW-028-042014			5/20/2014	6/11/2014	349233012	349233	●	
DMW-028-042014			5/20/2014	6/11/2014	349233013	349233	●	
MW-011-042014			5/20/2014	6/11/2014	349233002	349233	●	
AMW-061-042014			5/21/2014	6/11/2014	349325017	349325	●	●
		AMW-261-042014	5/21/2014	6/11/2014	349330001	349325-1	●	●
	BMW-061-042014		5/21/2014	6/11/2014	1203096264	349325-1	●	
	BMW-061-042014		5/21/2014	6/11/2014	1203096265	349325-1	●	
	BMW-061-042014		5/21/2014	6/11/2014	1203101065	349325-1		●
	BMW-061-042014		5/21/2014	6/11/2014	1203101066	349325-1		●
BMW-061-042014			5/21/2014	6/11/2014	349330002	349325-1	●	●
DMW-061-042014			5/21/2014	6/11/2014	349330003	349325-1	●	●
AMW-008-042014			5/21/2014	6/11/2014	349325002	349325	●	●
		AMW-208-042014	5/21/2014	6/11/2014	349325003	349325	●	●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
	BMW-008-042014		5/21/2014	6/11/2014	1203096262	349325	●	
	BMW-008-042014		5/21/2014	6/11/2014	1203096263	349325	●	
	BMW-008-042014		5/21/2014	6/11/2014	1203100060	349325		●
	BMW-008-042014		5/21/2014	6/11/2014	1203100061	349325		●
BMW-008-042014			5/21/2014	6/11/2014	349325004	349325	●	●
AMW-009-042014			5/21/2014	6/11/2014	349325005	349325		●
BMW-009-042014			5/21/2014	6/11/2014	349325006	349325		●
DMW-009-042014			5/21/2014	6/11/2014	349325007	349325		●
AMW-0136-042014			5/21/2014	6/11/2014	349325008	349325		●
BMW-0136-042014			5/21/2014	6/11/2014	349325009	349325		●
DMW-0136-042014			5/21/2014	6/11/2014	349325010	349325		●
EMW-0136-042014			5/21/2014	6/11/2014	349325011	349325		●
AMW-0137-042014			5/21/2014	6/11/2014	349325012	349325		●
BMW-0137-042014			5/21/2014	6/11/2014	349325013	349325		●
EMW-0137-042014			5/21/2014	6/11/2014	349325014	349325		●
AMW-073-042014			5/21/2014	6/11/2014	349330005	349325-1		●
BMW-073-042014			5/21/2014	6/11/2014	349330006	349325-1		●
AMW-040-042014			5/21/2014	6/11/2014	349325015	349325		●
BMW-040-042014			5/21/2014	6/11/2014	349325016	349325		●
AMW-078-042014			5/21/2014	6/11/2014	349330007	349325-1		●
BMW-078-042014			5/21/2014	6/11/2014	349330008	349325-1		●
AMW-072-042014			5/21/2014	6/11/2014	349330004	349325-1		●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
BMW-072-042014			5/27/2014	6/12/2014	349620017	349620		●
	AMW-0102-042014		5/27/2014	6/12/2014	1203101468	349620		●
	AMW-0102-042014		5/27/2014	6/12/2014	1203101469	349620		●
AMW-0102-042014			5/27/2014	6/12/2014	349620002	349620		●
BMW-0102-042014			5/27/2014	6/12/2014	349620003	349620		●
AMW-0103-042014			5/27/2014	6/12/2014	349620004	349620		●
BMW-0103-042014			5/27/2014	6/12/2014	349620005	349620		●
DMW-0103-042014			5/27/2014	6/12/2014	349620006	349620		●
AMW-0138-042014			5/27/2014	6/12/2014	349620011	349620		●
BMW-0138-042014			5/27/2014	6/12/2014	349620012	349620		●
AMW-0139-042014			5/27/2014	6/12/2014	349620013	349620		●
BMW-0139-042014			5/27/2014	6/12/2014	349620014	349620		●
AMW-0150-042014			5/27/2014	6/12/2014	349620015	349620	●	●
BMW-0150-042014			5/27/2014	6/12/2014	349620016	349620	●	●
AMW-0104-042014			5/27/2014	6/12/2014	349620007	349620	●	●
BMW-0104-042014			5/27/2014	6/12/2014	349620008	349620	●	●
DMW-0104-042014			5/27/2014	6/12/2014	349620009	349620	●	●
OMW-0104-042014			5/27/2014	6/12/2014	349620010	349620	●	●
AMW-0105-042014			5/28/2014	6/13/2014	349670002	349670	●	●
		AMW-2105-042014	5/28/2014	6/13/2014	349670003	349670	●	●
	BMW-0105-042014		5/28/2014	6/13/2014	1203099623	349670	●	
	BMW-0105-042014		5/28/2014	6/13/2014	1203099624	349670	●	

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Field Samples (Continued)								
	BMW-0105-042014		5/28/2014	6/13/2014	1203105062	349670		●
	BMW-0105-042014		5/28/2014	6/13/2014	1203105063	349670		●
BMW-0105-042014			5/28/2014	6/13/2014	349670004	349670	●	●
OMW-0105-042014			5/28/2014	6/13/2014	349670005	349670	●	●
AMW-0111-042014			5/28/2014	6/13/2014	349670010	349670	●	●
BMW-0111-042014			5/28/2014	6/13/2014	349670011	349670	●	●
OMW-0111-042014			5/28/2014	6/13/2014	349670012	349670	●	●
AMW-0109-042014			5/28/2014	6/13/2014	349670006	349670	●	●
		AMW-2109-042014	5/28/2014	6/13/2014	349670007	349670	●	●
	BMW-0109-042014		5/28/2014	6/13/2014	1203099625	349670	●	
	BMW-0109-042014		5/28/2014	6/13/2014	1203099626	349670	●	
	BMW-0109-042014		5/28/2014	6/13/2014	1203105065	349670		●
	BMW-0109-042014		5/28/2014	6/13/2014	1203105066	349670		●
BMW-0109-042014			5/28/2014	6/13/2014	349670008	349670	●	●
OMW-0109-042014			5/28/2014	6/13/2014	349670009	349670	●	●
AMW-0140-042014			5/28/2014	6/13/2014	349670013	349670		●
BMW-0140-042014			5/28/2014	6/13/2014	349670014	349670		●
DMW-0140-042014			5/28/2014	6/13/2014	349670015	349670		●
OMW-0140-042014			5/28/2014	6/13/2014	349670016	349670		●

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	VOCs
Trip Blanks								
TRB-242-042014			5/13/2014	6/2/2014	348757001	348757		•
TRB-2128-042014			5/14/2014	6/3/2014	348848001	348848		•
TRB-220-042014			5/15/2014	6/9/2014	348952001	348952		•
TRB-2157-042014			5/16/2014	6/4/2014	348954001	348954		•
TRB-203-042014			5/19/2014	6/11/2014	349215001	349215		•
TRB-232-042014			5/20/2014	6/11/2014	349233001	349233		•
TRB-261-042014			5/21/2014	6/11/2014	349325001	349325		•
TRB-272-042014			5/27/2014	6/12/2014	349620001	349620		•
TRB-2105-042014			5/28/2014	6/13/2014	349670001	349670		•

Notes:

VOCs - SW846 method 8260B - Volatile Organic Compounds by Capillary gas chromatography/mass spectrometry

Explosives - SW8330B - Nitoraromatics and Nitramines by high performance liquid chromatography

Quality control samples = field duplicates

• = Requested for the indicated analyses

ID = identification

Lab = laboratory

MS = matrix spike

MSD = matrix spike duplicate

SDG = sample delivery group

Table 3.1
Data Quality Evaluation Results
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Identification	Date Sampled	SDG	Laboratory Number	Analysis	Parameter	Units	Lab Result	Data Review Qualifier	%R	IS_Surr	Other	TR	Comments	Final Result
AMW-0104-042014	5/27/2014	349620	349620007	Volatiles	cis-1,2-dichloroethene	UG/L	3.2	J				X	Trace Level Detect	3.2 J
AMW-0109-042014	5/28/2014	349670	349670006	Volatiles	cis-1,2-dichloroethene	UG/L	0.78	J				X	Trace Level Detect	0.78 J
AMW-0111-042014	5/28/2014	349670	349670010	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.33	J				X	Trace Level Detect	0.33 J
AMW-0126-042014	5/19/2014	349215-1	349217002	Volatiles	cis-1,2-dichloroethene	UG/L	42	J				X	Trace Level Detect	42 J
AMW-0129-042014	5/13/2014	348757	348757002	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.22	J				X	Trace Level Detect	0.22 J
AMW-0130-042014	5/13/2014	348757	348757005	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.11	J				X	Trace Level Detect	0.11 J
AMW-0139-042014	5/27/2014	349620	349620013	Volatiles	trichloroethene	UG/L	0.4	J				X	Trace Level Detect	0.40 J
AMW-0140-042014	5/28/2014	349670	349670013	Volatiles	trichloroethene	UG/L	0.67	J				X	Trace Level Detect	0.67 J
AMW-0144-042014	5/15/2014	348952	348952008	Explosives	1,3,5-trinitrobenzene	UG/L	0.14	J				X	Trace Level Detect	0.14 J
AMW-0144-042014	5/15/2014	348952	348952008	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.15	J				X	Trace Level Detect	0.15 J
AMW-0144-042014	5/15/2014	348952	348952008	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.24	J				X	Trace Level Detect	0.24 J
AMW-0149-042014	5/15/2014	348952	348952014	Explosives	1,3,5-trinitrobenzene	UG/L	0.18	J				X	Trace Level Detect	0.18 J
AMW-0151-042014	5/13/2014	348757	348757011	Volatiles	cis-1,2-dichloroethene	UG/L	0.9	J				X	Trace Level Detect	0.90 J
AMW-0154-042014	5/13/2014	348757	348757016	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.14	J				X	Trace Level Detect	0.14 J
AMW-0154-042014	5/13/2014	348757	348757016	Volatiles	cis-1,2-dichloroethene	UG/L	0.73	J				X	Trace Level Detect	0.73 J
AMW-0156-042014	5/16/2014	348954	348954002	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.13	J				X	Trace Level Detect	0.13 J
AMW-0156-042014	5/16/2014	348954	348954002	Volatiles	trichloroethene	UG/L	0.94	J				X	Trace Level Detect	0.94 J
AMW-024-042014	5/20/2014	349233	349233007	Volatiles	trans-1,2-dichloroethene	UG/L	7.4	J				X	Trace Level Detect	7.4 J
AMW-032-042014	5/20/2014	349233	349233014	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.12	J				X	Trace Level Detect	0.12 J
AMW-033-042014	5/20/2014	349233	349233017	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.13	J				X	Trace Level Detect	0.13 J
AMW-042-042014	5/13/2014	348757-1	348763004	Volatiles	cis-1,2-dichloroethene	UG/L	0.41	J				X	Trace Level Detect	0.41 J
AMW-078-042014	5/21/2014	349325-1	349330007	Volatiles	trichloroethene	UG/L	0.81	J				X	Trace Level Detect	0.81 J
AMW-090-042014	5/15/2014	348952-1	348953007	Volatiles	cis-1,2-dichloroethene	UG/L	0.47	J				X	Trace Level Detect	0.47 J
AMW-099-042014	5/13/2014	348757-1	348763011	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.31	J				X	Trace Level Detect	0.31 J
AMW-2109-042014	5/28/2014	349670	349670007	Volatiles	cis-1,2-dichloroethene	UG/L	0.91	J				X	Trace Level Detect	0.91 J
AMW-2149-042014	5/15/2014	348952	348952015	Explosives	1,3,5-trinitrobenzene	UG/L	0.18	J				X	Trace Level Detect	0.18 J
AMW-242-042014	5/13/2014	348757-1	348763005	Volatiles	cis-1,2-dichloroethene	UG/L	0.4	J				X	Trace Level Detect	0.40 J

Table 3.1 (Continued)
Data Quality Evaluation Results
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Identification	Date Sampled	SDG	Laboratory Number	Analysis	Parameter	Units	Lab Result	Data Review Qualifier	%R	IS_Surr	Other	TR	Comments	Final Result
BMW-002-042014	5/19/2014	349215	349215004	Volatiles	trichloroethene	UG/L	91	J	X				MS Recovery	91 J
BMW-0104-042014	5/27/2014	349620	349620008	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.34	J				X	Trace Level Detect	0.34 J
BMW-0104-042014	5/27/2014	349620	349620008	Volatiles	cis-1,2-dichloroethene	UG/L	3.6	J				X	Trace Level Detect	3.6 J
BMW-0109-042014	5/28/2014	349670	349670008	Volatiles	cis-1,2-dichloroethene	UG/L	0.87	J				X	Trace Level Detect	0.87 J
BMW-0111-042014	5/28/2014	349670	349670011	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.19	J				X	Trace Level Detect	0.19 J
BMW-0126-042014	5/19/2014	349215-1	349217003	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.3	J				X	Trace Level Detect	0.30 J
BMW-0137-042014	5/21/2014	349325	349325013	Volatiles	cis-1,2-dichloroethene	UG/L	4.3	J				X	Trace Level Detect	4.3 J
BMW-0138-042014	5/27/2014	349620	349620012	Volatiles	cis-1,2-dichloroethene	UG/L	14	J				X	Trace Level Detect	14 J
BMW-0139-042014	5/27/2014	349620	349620014	Volatiles	cis-1,2-dichloroethene	UG/L	2	J				X	Trace Level Detect	2.0 J
BMW-0143-042014	5/15/2014	348952	348952007	Explosives	1,3,5-trinitrobenzene	UG/L	0.24	J				X	Trace Level Detect	0.24 J
BMW-0143-042014	5/15/2014	348952	348952007	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.22	J				X	Trace Level Detect	0.22 J
BMW-0150-042014	5/27/2014	349620	349620016	Explosives	1,3,5-trinitrobenzene	UG/L	0.16	J				X	Trace Level Detect	0.16 J
BMW-0154-042014	5/13/2014	348757	348757017	Volatiles	cis-1,2-dichloroethene	UG/L	0.42	J				X	Trace Level Detect	0.42 J
BMW-0157-042014	5/16/2014	348954	348954005	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.18	J				X	Trace Level Detect	0.18 J
BMW-024-042014	5/20/2014	349233	349233008	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.26	J				X	Trace Level Detect	0.26 J
BMW-025-042014	5/20/2014	349233	349233010	Volatiles	cis-1,2-dichloroethene	UG/L	0.34	J				X	Trace Level Detect	0.34 J
BMW-043-042014	5/13/2014	348757-1	348763009	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.18	J				X	Trace Level Detect	0.18 J
BMW-043-042014	5/13/2014	348757-1	348763009	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.21	J				X	Trace Level Detect	0.21 J
BMW-065-042014	5/20/2014	349233-1	349244001	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.14	J				X	Trace Level Detect	0.14 J
BMW-072-042014	5/27/2014	349620	349620017	Volatiles	cis-1,2-dichloroethene	UG/L	6.8	J				X	Trace Level Detect	6.8 J
BMW-083-042014	5/14/2014	348848	348848015	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.12	J				X	Trace Level Detect	0.12 J
BMW-090-042014	5/15/2014	348952-1	348953008	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.12	J				X	Trace Level Detect	0.12 J
DMW-0125-042014	5/19/2014	349215	349215014	Volatiles	cis-1,2-dichloroethene	UG/L	0.59	J		X		X	Surrogate recovery outside project limits.,Trace Level Detect	0.59 J
DMW-0125-042014	5/19/2014	349215	349215014	Volatiles	trichloroethene	UG/L	88	J		X			Surrogate recovery outside project limits.	88 J
DMW-0130-042014	5/13/2014	348757	348757007	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.12	J				X	Trace Level Detect	0.12 J
DMW-0136-042014	5/21/2014	349325	349325010	Volatiles	cis-1,2-dichloroethene	UG/L	0.44	J				X	Trace Level Detect	0.44 J
DMW-042-042014	5/13/2014	348757-1	348763007	Volatiles	cis-1,2-dichloroethene	UG/L	0.31	J				X	Trace Level Detect	0.31 J
DMW-098-042014	5/14/2014	348848-1	348853005	Volatiles	vinyl choride	UG/L	0.65	J				X	Trace Level Detect	0.65 J

Table 3.1 (Continued)
Data Quality Evaluation Results
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Identification	Date Sampled	SDG	Laboratory Number	Analysis	Parameter	Units	Lab Result	Data Review Qualifier	%R	IS_Surr	Other	TR	Comments	Final Result
EMW-0136-042014	5/21/2014	349325	349325011	Volatiles	cis-1,2-dichloroethene	UG/L	0.46	J				X	Trace Level Detect	0.46 J
EMW-0141-042014	5/20/2014	349233	349233006	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.25	J				X	Trace Level Detect	0.25 J
EMW-0142-042014	5/15/2014	348952	348952006	Explosives	1,3,5-trinitrobenzene	UG/L	0.22	R			X		Prep Hold Time	0.22 R
EMW-0142-042014	5/15/2014	348952	348952006	Explosives	2,4,6-trinitrotoluene	UG/L	0.22	R			X		Prep Hold Time	0.22 R
EMW-0142-042014	5/15/2014	348952	348952006	Explosives	2,4-dinitrotoluene	UG/L	0.22	R			X		Prep Hold Time	0.22 R
EMW-0142-042014	5/15/2014	348952	348952006	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.25	R			X		Prep Hold Time	0.25 R
EMW-0142-042014	5/15/2014	348952	348952006	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.22	R			X		Prep Hold Time	0.22 R
EMW-0142-042014	5/15/2014	348952	348952006	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.43	J			X		Prep Hold Time	0.43 J
EMW-0145-042014	5/15/2014	348952	348952011	Explosives	2-amino-4,6-dinitrotoluene	UG/L	0.13	J				X	Trace Level Detect	0.13 J
EMW-0155-042014	5/13/2014	348757	348757019	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	UG/L	0.26	J				X	Trace Level Detect	0.26 J
EMW-0180-042014	5/14/2014	348848	348848011	Explosives	4-amino-2,6-dinitrotoluene	UG/L	0.28	J				X	Trace Level Detect	0.28 J

Notes:
BLK = blank
Lab = laboratory
LCS = laboratory control sample
μg/L = micrograms per liter
%R = percent recovery
SDG = sample delivery group
J = The contaminant was detected, but there is some question that the stated concentration is exact.

Reason for Qualification:
IS_Surr = surrogate recovery outside project limits
%R = LCS - low, LCS Recovery, Matrix Spike (MS) - low, MS Recovery
TR = trace level detection

Table 3.2
Explosives Quality Control Outliers
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID(s) Requiring Qualification	SDG	Compound(s)	QC Outlier	QC Parameter Control Limit	QC Result
Field Duplicate RPD					
BMW-0125-042014	349215	1,3,5-Trinitrobenzene	Field Duplicate exceeds UCL	< 30 RPD	30.6 RPD
BMW-2125-042014	349215	1,3,5-Trinitrobenzene	Field Duplicate exceeds UCL	< 30 RPD	30.6 RPD
Prep Hold Time					
EMW-0142-042014	348952	1,3,5-Trinitrobenzene	Prep exceeds UCL	< 7 Days	18.8 Days
EMW-0142-042014	348952	2,4,6-Trinitrotoluene	Prep exceeds UCL	< 7 Days	18.8 Days
EMW-0142-042014	348952	2,4-Dinitrotoluene	Prep exceeds UCL	< 7 Days	18.8 Days
EMW-0142-042014	348952	4-Amino-4,6-Dinitrotoluene	Prep exceeds UCL	< 7 Days	18.8 Days
EMW-0142-042014	348952	4-Amino-2,6-Dinitrotoluene	Prep exceeds UCL	< 7 Days	18.8 Days
EMW-0142-042014	348952	RDX	Prep exceeds UCL	< 7 Days	18.8 Days

Notes:

ID = identification

QC = quality control

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RPD = relative percent difference

SDG = sample delivery group

UCL = upper control limit

Table 3.3
VOC Quality Control Outliers
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID(s) Requiring Qualification	SDG	Compound(s)	QC Outlier	QC Parameter Control Limit	QC Result
Field Duplicate					
AMW-0141-042014	349233	cis-1,2-Dichloroethylene	Field Duplicate exceeds UCL	< 30 RPD	35.9 RPD
AMW-0141-042014	349233	Trichloroethene	Field Duplicate exceeds UCL	< 30 RPD	119 RPD
AMW-2141-042014	349233	cis-1,2-Dichloroethylene	Field Duplicate exceeds UCL	< 30 RPD	35.9 RPD
AMW-2141-042014	349233	Trichloroethene	Field Duplicate exceeds UCL	< 30 RPD	119 RPD
MS Recovery					
BMW-002-042014	349215	Trichloroethene	MS < minimum LCL	80 - 120 %	52.80%
BMW-002-042014	349215	Trichloroethene	MS < minimum LCL	80 - 120 %	60.80%
Surrogate					
DMW-0125-042014	349215	cis-1,2-Dichloroethylene	Surrogate exceeds UCL	80 - 115 %	117%
DMW-0125-042014	349215	Trichloroethene	Surrogate exceeds UCL	80 - 115 %	117%

Notes:
ID = identification
QC = quality control
SDG = sample delivery group
UCL = upper control limit
LCL = lower control limit
RPD = relative percent difference
Surrogate = 1,2-Dichlorothane-d4
MDL = method detection limit
MS = matrix spike

Table 4.1
Field Completeness
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Analysis	Number of Samples Planned[1]	Number of Samples Collected[1]	Field Completeness
Explosives	157	157	100.0%
VOCs	162	162	100%
Totals =	**319**	**319**	**100.0%**
Goal =			**95%**

Notes:

[1]The number of planned and collected samples includes field samples and field duplicate samples.

Table 4.2
Analytical Completeness
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Analysis	Total Number of Parameters[1]	Usable Data[2]	Usable Data Completeness	Usable Data Completeness Goals
Explosives (Analyte Count - 6)	942	937	99.5	95%
Volatiles (Analyte Count - 6)	972	972	100%	95%
Totals =	**1914**	**1909**	**99.7%**	**95%**

Notes:

[1]Total number of parameters includes field samples (includes data points from dilutions and/or reanalyses to be used in place of original data) and field duplicates (does not include field blanks or trip blanks).

[2]Usable data is defined as all non-rejected data.corrective actions were taken or do not require corrective action do not count against the acceptable data completeness goal calculation (i.e., results exceeding the calibration range that were reanalyzed at dilutions within the calibration range).

Table 4.3
Project Completeness
Second Quarter 2014 Groundwater Monitoring Program Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Completeness[1]	Analytical Completeness[2]	Project Completeness [3]
100.0%	99.7%	99.7%
Project Completeness Goal =		90%

Notes:

[1]Field Completeness is the number of sample collected for VOCs and explosives compared to the number of planned samples for each analysis.

[2]Analytical Completeness is the percentage of usable data (i.e. quality data completeness).

[3]Project Completeness combines sampling and analytical protocols to assess the expectations of the project as a whole. Project completeness is determined by comparing the percentage of samples/measurements that are determined to be usable to the total number of samples/measurements planned.

APPENDIX A

CHAIN OF CUSTODY RECORDS

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348763

CHAIN-OF-CUSTODY RECORD

Environmental Chemical Corporation
John Ryder
1746 Cole Boulevard, Building 21, Suite 350, Lakewood, CO 80401
(303) 590-1157, jryder@ecc.net

COC # 051314

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds		Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1					
20	AMW-018-042014	WG	5/13/2014	1010	TH R	X	X		MW-18A	N1	122.00	125.00
21	BMW-018-042014	WG	5/13/2014	1020	TH R	X	X		MW-18B	N1	0.00	0.00
22	CMW-018-042014	WG	5/13/2014	1030	TH R	X	X		MW-18C	N1	36.70	46.70
23	AMW-042-042014	WG	5/13/2014	0815	TH R	X	X		MW-42A	N1	86.00	96.00
24	AMW-242-042014	WG	5/13/2014	0815	TH R	X	X		MW-42A	FD1	86.00	96.00
25	BMW-042-042014 1 Exp Bottle	WG	5/13/2014	0830	TH R	X	X	1 Bottle	MW-42B	N1	53.00	63.00
26	BMW-042-042014MS 1 Exp Bottle	WG	5/13/2014	0830	TH R	X	X	1 Bottle	MW-42B	MS1	53.00	63.00
27	BMW-042-042014MSD 1 Exp Bottle	WG	5/13/2014	0830	TH R	X	X	1 Bottle	MW-42B	SD1	53.00	63.00
28	DMW-042-042014	WG	5/13/2014	0845	TH R	X	X		MW-42D	N1	103.20	108.20
29	AMW-043-042014	WG	5/13/2014	0930	TH R	X	X		MW-43A	N1	90.50	100.50
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	Date	Time
Troy [illegible]	5-14-14	1700

Received by: *(Signature)*	Date	Time
[illegible]	5-15-14	0915

Shipping Date / Carrier / Airbill Number
Fed-ex 7988 5260 8597

Recevied by Laboratory: *(Signature, Date, Time)* & condition

CHAIN-OF-CUSTODY RECORD

Environmental Chemical Corporation
John Ryder
1746 Cole Boulevard, Building 21, Suite 350, Lakewood, CO 80401
(303) 590-1157, jryder@ecc.net

COC # 051314

HGL HydroGeoLogic, Inc Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
30	BMW-043-042014	WG	5/13/2014	0945	TH R	X	X	MW-43B	N1	40.00	50.00
31	DMW-043-042014	WG	5/13/2014	1000	TH R	X	X	MW-43D	N1	106.40	111.40
32	AMW-099-042014	WG	5/13/2014	1505	TH R		X	MW-99A	N1	102.00	112.00
33	BMW-099-042014	WG	5/13/2014	1515	TH R	X	X	MW-99B	N1	75.00	85.00
34	DMW-099-042014	WG	5/13/2014	1525	TH R		X	MW-99D	N1	118.50	123.50

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
Toby D. Hill	5-14-14	1700

Received by: *(Signature)*	Date	Time
[illegible]	5-15-14	0915

Shipping Date / Carrier / Airbill Number

Fed-ex 7988 5260 8597

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

348763

CHAIN-OF-CUSTODY RECORD

Environmental Chemical Corporation
John Ryder
1746 Cole Boulevard, Building 21, Suite 350, Lakewood, CO 80401
(303) 590-1157, jryder@ecc.net

COC # 051314

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds		Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1					
20	AMW-018-042014	WG	5/13/2014	1010	TH R	X	X		MW-18A	N1	122.00	125.00
21	BMW-018-042014	WG	5/13/2014	1020	TH R	X	X		MW-18B	N1	0.00	0.00
22	CMW-018-042014	WG	5/13/2014	1030	TH R	X	X		MW-18C	N1	36.70	46.70
23	AMW-042-042014	WG	5/13/2014	0815	TH R	X	X		MW-42A	N1	86.00	96.00
24	AMW-242-042014	WG	5/13/2014	0815	TH R	X	X		MW-42A	FD1	86.00	96.00
25	BMW-042-042014 1 Exp Bottle	WG	5/13/2014	0830	TH R	X	X	1 Bottle	MW-42B	N1	53.00	63.00
26	BMW-042-042014MS 1 Exp Bottle	WG	5/13/2014	0830	TH R	X	X	1 Bottle	MW-42B	MS1	53.00	63.00
27	BMW-042-042014MSD 1 Exp Bottle	WG	5/13/2014	0830	TH R	X	X	1 Bottle	MW-42B	SD1	53.00	63.00
28	DMW-042-042014	WG	5/13/2014	0845	TH R	X	X		MW-42D	N1	103.20	108.20
29	AMW-043-042014	WG	5/13/2014	0930	TH R	X	X		MW-43A	N1	90.50	100.50
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	Date	Time
Troy [illegible]	5-14-14	1700

Received by: *(Signature)*	Date	Time
[illegible]	5-15-14	0915

Shipping Date / Carrier / Airbill Number
Fed-ex 7988 5260 8597

Recevied by Laboratory: *(Signature, Date, Time)* & condition

CHAIN-OF-CUSTODY RECORD

Environmental Chemical Corporation
John Ryder
1746 Cole Boulevard, Building 21, Suite 350, Lakewood, CO 80401
(303) 590-1157, jryder@ecc.net

COC # 051314

HGL HydroGeoLogic, Inc Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
30	BMW-043-042014	WG	5/13/2014	0945	TH R	X	X	MW-43B	N1	40.00	50.00
31	DMW-043-042014	WG	5/13/2014	1000	TH R	X	X	MW-43D	N1	106.40	111.40
32	AMW-099-042014	WG	5/13/2014	1505	TH R		X	MW-99A	N1	102.00	112.00
33	BMW-099-042014	WG	5/13/2014	1515	TH R	X	X	MW-99B	N1	75.00	85.00
34	DMW-099-042014	WG	5/13/2014	1525	TH R		X	MW-99D	N1	118.50	123.50

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
Toby D. Hill	5-14-14	1700

Received by: *(Signature)*	Date	Time
[illegible]	5-15-14	0915

Shipping Date / Carrier / Airbill Number

Fed-ex 7988 5260 8597

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

343848

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051414

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Analytical Test Method

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
1	TRB-2128-042014	WQ	5/14/2014	0830	TH	X		FIELDQC	TB1	0.00	0.00
2	AMW-0100-042014	WG	5/14/2014	0900	TH R	X	X	MW-100A	N1	83.00	93.00
3	BMW-0100-042014	WG	5/14/2014	0915	TH R	X	X	MW-100B	N1	65.00	75.00
4	DMW-0100-042014	WG	5/14/2014	0925	TH R	X	X	MW-100D	N1	99.90	104.90
5	AMW-0128-042014	WG	5/14/2014	0830	TH R		X	MW-128A	N1	96.20	106.20
6	BMW-0128-042014	WG	5/14/2014	0840	TH R		X	MW-128B	N1	79.50	90.10
7	AMW-0146-042014	WG	5/14/2014	1355	TH R	X	X	MW-146A	N1	97.00	125.00
8	AMW-2146-042014	WG	5/14/2014	1355	TH R	X	X	MW-146A	FD1	97.00	125.00
9	BMW-0146-042014	WG	5/14/2014	1410	TH R	X	X	MW-146B	N1	77.00	77.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
Toby D Hill	5-15-14	1200

Received by: *(Signature)*	**Date**	**Time**
[illegible]	5-16-14	0900

Shipping Date / Carrier / Airbill Number

Fed-ex 7988 6731 2127

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051414

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Analytical Test Method

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
10	AMW-0180-042014	WG	5/14/2014	1145	TH R		X	MW-180A	N1	0.00	0.00
11	EMW-0180-042014	WG	5/14/2014	1155	TH R		X	MW-180E	N1	0.00	0.00
12	AMW-082-042014	WG	5/14/2014	1420	TH R	X	X	MW-82A	N1	89.50	94.50
13	BMW-082-042014	WG	5/14/2014	1430	TH R	X	X	MW-82B	N1	61.20	65.70
14	DMW-082-042014	WG	5/14/2014	1440	TH R	X	X	MW-82D	N1	120.00	125.00
15	BMW-083-042014	WG	5/14/2014	1045	TH R	X	X	MW-83B	N1	75.00	80.00
16	AMW-096-042014	WG	5/14/2014	1105	TH R	X	X	MW-96A	N1	82.50	92.50
17	BMW-096-042014	WG	5/14/2014	1115	TH R	X	X	MW-96B	N1	71.00	81.00
18	DMW-096-042014	WG	5/14/2014	1125	TH R	X	X	MW-96D	N1	101.50	106.00
19	AMW-097-042014	WG	5/14/2014	1015	TH R	X	X	MW-97A	N1	83.00	93.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
Toby Hill	5-15-14	1800

Received by: *(Signature)*	**Date**	**Time**
[signature]	5-16-14	0900

Shipping Date / Carrier / Airbill Number
Fed-Ex 7988 6731 2127

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

348853

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051414

HGL HydroGeoLogic, Inc Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
20	BMW-097-042014	WG	5/14/2014	1025	TH R	X	X	MW-97B	N1	68.00	73.00
21	DMW-097-042014	WG	5/14/2014	1035	TH R	X	X	MW-97D	N1	99.98	105.50
22	AMW-098-042014	WG	5/14/2014	0935	TH R	X	X	MW-98A	N1	82.00	92.00
23	BMW-098-042014	WG	5/14/2014	0945	TH R	X	X	MW-98B	N1	64.00	69.00
24	DMW-098-042014	WG	5/14/2014	1000	TH R	X	X	MW-98D	N1	97.00	102.00

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
Toby R Hinz	5-15-14	1800

Received by: *(Signature)*	Date	Time
[signature]	5-16-14	0900

Shipping Date / Carrier / Airbill Number

Fed-ex 7988 6731 2127

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
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6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051514

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

348952

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace.
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Analytical Test Method

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
1	TRB-220-042014	WQ	5/15/2014	0845	TH	X		FIELDQC	TB1	0.00	0.00
2	AMW-0101-042014	WG	5/15/2014	0945	TH R	X	X	MW-101A	N1	83.00	93.00
3	BMW-0101-042014	WG	5/15/2014	1000	TH R	X	X	MW-101B	N1	30.00	40.00
4	DMW-0101-042014	WG	5/15/2014	1015	TH R	X	X	MW-101D	N1	90.00	95.00
5	AMW-0142-042014	WG	5/15/2014	1415	TH R	X	X	MW-142A	N1	125.00	135.00
6	EMW-0142-042014	WG	5/15/2014	1430	TH R	X	X	MW-142E	N1	100.00	100.00
7	BMW-0143-042014	WG	5/15/2014	1610	TH R	X	X	MW-143B	N1	62.00	62.00
8	AMW-0144-042014	WG	5/15/2014	1505	TH R		X	MW-144A	N1	101.00	105.00
9	EMW-0144-042014	WG	5/15/2014	1515	TH R		X	MW-144E	N1	85.00	85.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	Date	Time
Toby D. Hinz	5-16-14	1700

Received by: *(Signature)*	Date	Time
P. Nant	5.17.14	0920

Shipping Date / Carrier / Airbill Number
Fed-ex 7700 0412 9183

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051514

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
10	AMW-0145-042014	WG	5/15/2014	1445	TH R		X	MW-145A	N1	95.70	96.00
11	EMW-0145-042014	WG	5/15/2014	1455	TH R		X	MW-145E	N1	82.00	82.00
12	BMW-0148-042014	WG	5/15/2014	1525	TH R	X	X	MW-148B	N1	75.00	75.00
13	BMW-2148-042014 1 Exp Bottle	WG	5/15/2014	1525	TH R	X	X1 Exp Bottle	MW-148B	FD1	75.00	75.00
14	AMW-0149-042014	WG	5/15/2014	1545	TH R	X	X	MW-149A	N1	90.00	100.00
15	AMW-2149-042014 1 Exp Bottle	WG	5/15/2014	1545	TH R	X	X1 Exp Bottle	MW-149A	FD1	90.00	100.00
16	AMW-020-042014	WG	5/15/2014	0900	TH R	X	X	MW-20A	N1	145.00	150.40
17	AMW-220-042014	WG	5/15/2014	0900	TH R	X	X	MW-20A	FD1	145.00	150.40
18	BMW-020-042014	WG	5/15/2014	0915	TH R	X	X	MW-20B	N1	128.60	133.60
19	BMW-020-042014MS 1 Exp Bottle	WG	5/15/2014	0915	TH R	X	X1 Bottle	MW-20B	MS1	128.60	133.60
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
Toby D. Hinz	5-16-14	1700

Received by: *(Signature)*	**Date**	**Time**

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 0412 9183

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
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6340 Glenwood Street, Building 7, Suite 200
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COC # 051514

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment: 348953

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
	Event: Second Quarter 2014						1				
20	BMW-020-042014MSD	WG	5/15/2014	0915	TH R	X	X	MW-20B	SD1	128.60	133.60
21	CMW-020-042014	WG	5/15/2014	0930	TH R	X	X	MW-20C	N1	50.30	60.30
22	AMW-089-042014	WG	5/15/2014	1325	TH R	X		MW-89A	N1	129.20	139.20
23	BMW-089-042014	WG	5/15/2014	1335	TH R	X		MW-89B	N1	65.00	75.70
24	DMW-089-042014	WG	5/15/2014	1345	TH R	X		MW-89D	N1	145.00	150.60
25	EMW-089-042014	WG	5/15/2014	1400	TH R	X	X	MW-89E	N1	95.00	95.00
26	AMW-090-042014	WG	5/15/2014	1245	TH R	X	X	MW-90A	N1	112.20	123.40
27	BMW-090-042014	WG	5/15/2014	1300	TH R	X	X	MW-90B	N1	65.35	75.45
28	DMW-090-042014	WG	5/15/2014	1315	TH R	X	X	MW-90D	N1	130.20	135.20
29	AMW-091-042014	WG	5/15/2014	1115	TH R	X		MW-91A	N1	109.20	119.20
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
Toby D Hiz	5-16-14	1700

Received by: *(Signature)*	**Date**	**Time**
P. Nlent	5.17-14	0900

Shipping Date / Carrier / Airbill Number

Fed ex 7700 0412 9183

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
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6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051514

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Analytical Test Method

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
30	BMW-091-042014	WG	5/15/2014	1130	TH R	X		MW-91B	N1	67.60	77.60
31	DMW-091-042014	WG	5/15/2014	1145	TH R	X		MW-91D	N1	125.20	130.20
32	AMW-093-042014	WG	5/15/2014	1030	TH R	X		MW-93A	N1	84.20	94.20
33	BMW-093-042014	WG	5/15/2014	1045	TH R	X	X	MW-93B	N1	60.00	70.00

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
Toby R. Hinz	5-16-14	1700

Received by: *(Signature)*	Date	Time
P. Nert	5-17-14	0900

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 0412 9187

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051614

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment: 348954

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
1	TRB-2157-042014	WQ	5/16/2014	1200	TH	X		FIELDQC	TB1	0.00	0.00
2	AMW-0156-042014	WG	5/16/2014	1230	TH R	X	X	MW-156A	N1	46.00	46.00
3	BMW-0156-042014	WG	5/16/2014	1245	TH R	X	X	MW-156B	N1	26.00	26.00
4	AMW-0157-042014	WG	5/16/2014	1200	TH R	X	X	MW-157A	N1	55.00	55.00
5	BMW-0157-042014	WG	5/16/2014	1215	TH R	X	X	MW-157B	N1	37.00	37.00
6	AMW-044-042014	WG	5/16/2014	1300	TH R	X	X	MW-44A	N1	29.50	39.50
7	BMW-044-042014	WG	5/16/2014	1315	TH R	X	X	MW-44B	N1	16.00	26.00
8	DMW-044-042014	WG	5/16/2014	1330	TH R	X	X	MW-44D	N1	50.80	55.80
9	AMW-086-042014	WG	5/16/2014	1345	TH R	X	X	MW-86A	N1	52.50	62.50
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
Toby D Hing	5-16-14	1700

Received by: *(Signature)*	**Date**	**Time**
P. Wlent	5-17-14	0900

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 1105 5477

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
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COC # 051614

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
10	AMW-286-042014	WG	5/16/2014	1345	TH R	X	X	MW-86A	FD1	52.50	62.50
11	BMW-086-042014	WG	5/16/2014	1400	TH R	X	X	MW-86B	N1	43.00	53.00
12	DMW-086-042014	WG	5/16/2014	1410	TH R	X	X	MW-86D	N1	68.98	74.50

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
Tosyn Hinz	5-16-14	1700

Received by: *(Signature)*	Date	Time
P. Wert	5.17.14	0900

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 1105 5477

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

349215 / 349217

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051914

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Analytical Test Method

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
1	TRB-203-042014	WQ	5/19/2014	0900	TH	X		FIELDQC	TB1	0.00	0.00
2	AMW-002-042014	WG	5/19/2014	1045	TH R	X	X	MW-02A	N1	67.70	96.90
3	AMW-202-042014	WG	5/19/2014	1045	TH R	X	X	MW-02A	FD1	67.70	96.90
4	BMW-002-042014	WG	5/19/2014	1115	TH R	X	X	MW-02B	N1	34.30	63.50
5	BMW-002-042014MS	WG	5/19/2014	1115	TH R	X	X	MW-02B	MS1	34.30	63.50
6	BMW-002-042014MSD / Exp Bottle	WG	5/19/2014	1115	TH R	X	X / Exp only	MW-02B	SD1	34.30	63.50
7	AMW-003-042014	WG	5/19/2014	0955	TH R	X	X	MW-03A	N1	97.00	145.80
8	AMW-203-042014 / Exp Bottle	WG	5/19/2014	0955	TH R	X	Exp only	MW-03A	FD1	97.00	145.80
9	BMW-003-042014	WG	5/19/2014	1015	TH R	X	X	MW-03B	N1	39.90	98.40
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Toby Higz	5-20-14	1700	[signature]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 3323 8007

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051914

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

						Analytical Test Method	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds				
Event: Second Quarter 2014								1				
	Sample ID	Matrix	Date	Time	Samp Init.				Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
10	BMW-003-042014MS	WG	5/19/2014	1015	TH R		X	X	MW-03B	MS1	39.90	98.40
11	BMW-003-042014MSD 1 Extra bottle	WG	5/19/2014	1015	TH R		X	~~X~~ 1 Bottle	MW-03B	SD1	39.90	98.40
12	AMW-0124-042014	WG	5/19/2014	1445	TH R		X	X	MW-124A	N1	100.30	109.80
13	BMW-0124-042014	WG	5/19/2014	1500	TH R		X	X	MW-124B	N1	69.70	79.20
14	BMW-2124-042014	WG	5/19/2014	1500	TH R		X	X	MW-124B	FD1	69.70	79.20
15	DMW-0124-042014	WG	5/19/2014	1515	TH R		X	X	MW-124D	N1	121.30	125.70
16	AMW-0125-042014	WG	5/19/2014	1400	TH R		X	X	MW-125A	N1	117.90	127.40
17	BMW-0125-042014	WG	5/19/2014	1415	TH R		X	X	MW-125B	N1	76.70	86.20
18	BMW-2125-042014	WG	5/19/2014	1415	TH R		X	X	MW-125B	FD1	76.70	86.20
19	DMW-0125-042014	WG	5/19/2014	1430	TH R		X	X	MW-125D	N1	134.40	138.80
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	**Date**	**Time**
Toby Hinz	5-20-14	1700

Received by: *(Signature)*	**Date**	**Time**
[signature]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 3323 8007

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051914

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
20	AMW-0126-042014	WG	5/19/2014	1215	TH R	X	X	MW-126A	N1	112.30	121.80
21	BMW-0126-042014	WG	5/19/2014	1230	TH R	X	X	MW-126B	N1	82.30	91.80
22	DMW-0126-042014	WG	5/19/2014	1245	TH R	X	X	MW-126D	N1	148.80	153.20
23	AMW-0127-042014	WG	5/19/2014	1130	TH R	X	X	MW-127A	N1	118.50	128.00
24	BMW-0127-042014	WG	5/19/2014	1145	TH R	X	X	MW-127B	N1	71.90	81.40
25	EMW-0127-042014	WG	5/19/2014	1200	TH R	X	X	MW-127E	N1	51.60	61.10
26	AMW-021-042014	WG	5/19/2014	1530	TH R	X	X	MW-21A	N1	116.00	126.00
27	BMW-021-042014	WG	5/19/2014	1545	TH R	X	X	MW-21B	N1	66.00	76.00
28	DMW-021-042014	WG	5/19/2014	1600	TH R	X	X	MW-21D	N1	133.00	138.00
29	AMW-029-042014	WG	5/19/2014	1335	TH R		X	MW-29A	N1	122.60	132.60
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
Toby Hill	5-20-14	1700

Received by: *(Signature)*	**Date**	**Time**
[illegible]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 3323 8007

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
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(913) 1, ltholl@hgl.com

COC # 051914

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
	Event: Second Quarter 2014						1				
30	BMW-029-042014	WG	5/19/2014	1345	TH R		X	MW-29B	N1	64.50	74.50
Cooler # 1		**Turnaround Time:**									

Analytical Test Method

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
Toby D Hizz	5-20-14	1700	[signature]	5-22-14	0855	Fed-ex 7700 3323 8007
						Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

349215 / 349217

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051914

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Analytical Test Method

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
1	TRB-203-042014	WQ	5/19/2014	0900	TH	X		FIELDQC	TB1	0.00	0.00
2	AMW-002-042014	WG	5/19/2014	1045	TH R	X	X	MW-02A	N1	67.70	96.90
3	AMW-202-042014	WG	5/19/2014	1045	TH R	X	X	MW-02A	FD1	67.70	96.90
4	BMW-002-042014	WG	5/19/2014	1115	TH R	X	X	MW-02B	N1	34.30	63.50
5	BMW-002-042014MS	WG	5/19/2014	1115	TH R	X	X	MW-02B	MS1	34.30	63.50
6	BMW-002-042014MSD / Exp Bottle	WG	5/19/2014	1115	TH R	X	X / Exp only	MW-02B	SD1	34.30	63.50
7	AMW-003-042014	WG	5/19/2014	0955	TH R	X	X	MW-03A	N1	97.00	145.80
8	AMW-203-042014 / Exp Bottle	WG	5/19/2014	0955	TH R	X	Exp only	MW-03A	FD1	97.00	145.80
9	BMW-003-042014	WG	5/19/2014	1015	TH R	X	X	MW-03B	N1	39.90	98.40
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Toby Higz	5-20-14	1700	[signature]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 3323 8007

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
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COC # 051914

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

						Analytical Test Method	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds				
Event: Second Quarter 2014								1				
	Sample ID	Matrix	Date	Time	Samp Init.				Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
10	BMW-003-042014MS	WG	5/19/2014	1015	TH R		X	X	MW-03B	MS1	39.90	98.40
11	BMW-003-042014MSD 1 Extra bottle	WG	5/19/2014	1015	TH R		X	~~X~~ 1 Bottle	MW-03B	SD1	39.90	98.40
12	AMW-0124-042014	WG	5/19/2014	1445	TH R		X	X	MW-124A	N1	100.30	109.80
13	BMW-0124-042014	WG	5/19/2014	1500	TH R		X	X	MW-124B	N1	69.70	79.20
14	BMW-2124-042014	WG	5/19/2014	1500	TH R		X	X	MW-124B	FD1	69.70	79.20
15	DMW-0124-042014	WG	5/19/2014	1515	TH R		X	X	MW-124D	N1	121.30	125.70
16	AMW-0125-042014	WG	5/19/2014	1400	TH R		X	X	MW-125A	N1	117.90	127.40
17	BMW-0125-042014	WG	5/19/2014	1415	TH R		X	X	MW-125B	N1	76.70	86.20
18	BMW-2125-042014	WG	5/19/2014	1415	TH R		X	X	MW-125B	FD1	76.70	86.20
19	DMW-0125-042014	WG	5/19/2014	1430	TH R		X	X	MW-125D	N1	134.40	138.80
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	**Date**	**Time**
Toby Hinz	5-20-14	1700

Received by: *(Signature)*	**Date**	**Time**
[signature]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

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CHAIN-OF-CUSTODY RECORD

HGL
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(913) 1, ltholl@hgl.com

COC # 051914

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
20	AMW-0126-042014	WG	5/19/2014	1215	TH R	X	X	MW-126A	N1	112.30	121.80
21	BMW-0126-042014	WG	5/19/2014	1230	TH R	X	X	MW-126B	N1	82.30	91.80
22	DMW-0126-042014	WG	5/19/2014	1245	TH R	X	X	MW-126D	N1	148.80	153.20
23	AMW-0127-042014	WG	5/19/2014	1130	TH R	X	X	MW-127A	N1	118.50	128.00
24	BMW-0127-042014	WG	5/19/2014	1145	TH R	X	X	MW-127B	N1	71.90	81.40
25	EMW-0127-042014	WG	5/19/2014	1200	TH R	X	X	MW-127E	N1	51.60	61.10
26	AMW-021-042014	WG	5/19/2014	1530	TH R	X	X	MW-21A	N1	116.00	126.00
27	BMW-021-042014	WG	5/19/2014	1545	TH R	X	X	MW-21B	N1	66.00	76.00
28	DMW-021-042014	WG	5/19/2014	1600	TH R	X	X	MW-21D	N1	133.00	138.00
29	AMW-029-042014	WG	5/19/2014	1335	TH R		X	MW-29A	N1	122.60	132.60
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
Toby Hill	5-20-14	1700

Received by: *(Signature)*	**Date**	**Time**
[illegible]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 3323 8007

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 051914

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
	Event: Second Quarter 2014						1				
30	BMW-029-042014	WG	5/19/2014	1345	TH R		X	MW-29B	N1	64.50	74.50
Cooler # 1		**Turnaround Time:**									

Analytical Test Method

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
Toby D Hizz	5-20-14	1700	[signature]	5-22-14	0855	Fed-ex 7700 3323 8007
						Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

349233

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 052014

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds (Analytical Test Method)	SW8330 - Explosives: 6 Compounds (Analytical Test Method)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
1	TRB-232-042014	WQ	5/20/2014	0930	TH	X		FIELDQC	TB1	0.00	0.00
2	MW-011-042014	WG	5/20/2014	1500	TH R		X	MW-11	N1	18.80	48.00
3	AMW-0141-042014	WG	5/20/2014	1130	TH R	X	X	MW-141A	N1	115.00	145.00
4	AMW-2141-042014	WG	5/20/2014	1130	TH R	X	X	MW-141A	FD1	115.00	145.00
5	BMW-0141-042014	WG	5/20/2014	1145	TH R	X	X	MW-141B	N1	60.00	60.00
6	EMW-0141-042014	WG	5/20/2014	1200	TH R	X	X	MW-141E	N1	90.00	90.00
7	AMW-024-042014	WG	5/20/2014	1100	TH R	X	X	MW-24A	N1	111.50	121.50
8	BMW-024-042014	WG	5/20/2014	1115	TH R	X	X	MW-24B	N1	56.00	66.00
9	AMW-025-042014	WG	5/20/2014	1215	TH R	X	X	MW-25A	N1	145.00	155.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	Date	Time
Toby O. Hill	5-21-14	1700

Received by: *(Signature)*	Date	Time
[illegible]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

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Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
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COC # 052014

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
10	BMW-025-042014	WG	5/20/2014	1230	TH R	X	X	MW-25B	N1	74.00	84.00
11	AMW-028-042014	WG	5/20/2014	1415	TH R		X	MW-28A	N1	127.60	137.60
12	BMW-028-042014	WG	5/20/2014	1430	TH R		X	MW-28B	N1	67.50	77.50
13	DMW-028-042014	WG	5/20/2014	1440	TH R		X	MW-28D	N1	144.00	149.00
14	AMW-032-042014	WG	5/20/2014	0930	TH R		X	MW-32A	N1	88.50	98.50
15	BMW-032-042014	WG	5/20/2014	0940	TH R		X	MW-32B	N1	71.00	81.00
16	DMW-032-042014	WG	5/20/2014	0950	TH R		X	MW-32D	N1	106.50	111.50
17	AMW-033-042014	WG	5/20/2014	1000	TH R		X	MW-33A	N1	100.50	110.50
18	BMW-033-042014	WG	5/20/2014	1010	TH R		X	MW-33B	N1	73.50	83.50
19	DMW-033-042014	WG	5/20/2014	1020	TH R		X	MW-33D	N1	120.00	125.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
Toby D. Hinz	5-21-14	1700

Received by: *(Signature)*	**Date**	**Time**
[illegible]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 4787 75 77

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

349244

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 052014

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
20	BMW-065-042014	WG	5/20/2014	1030	TH R		X	MW-65B	N1	35.40	65.40
21	AMW-094-042014	WG	5/20/2014	1340	TH R		X	MW-94A	N1	84.00	94.00
22	BMW-094-042014	WG	5/20/2014	1350	TH R		X	MW-94B	N1	64.00	74.00

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	**Date**	**Time**	**Received by:** *(Signature)*	**Date**	**Time**
Toby D. Hizz	5-21-14	1700	[signature]	5-22-14	0855

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 4787 7577

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

349325

CHAIN-OF-CUSTODY RECORD

HGL
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COC # 052114

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
1	TRB-261-042014	WQ	5/21/2014	0930	TH	X		FIELDQC	TB1	0.00	0.00
2	AMW-008-042014	WG	5/21/2014	1045	TH R	X	X	MW-08A	N1	84.00	123.00
3	AMW-208-042014	WG	5/21/2014	1045	TH R	X	X	MW-08A	FD1	84.00	123.00
4	BMW-008-042014	WG	5/21/2014	1100	TH R	X	X	MW-08B	N1	42.10	81.00
5	BMW-008-042014MS	WG	5/21/2014	1100	TH R	X	X	MW-08B	MS1	42.10	81.00
6	BMW-008-042014MSD 1 Exp Bottle	WG	5/21/2014	1100	TH R	X	X 1 Exp Bottle	MW-08B	SD1	42.10	81.00
7	AMW-009-042014	WG	5/21/2014	1125	TH R	X		MW-09A	N1	89.00	128.00
8	BMW-009-042014	WG	5/21/2014	1135	TH R	X		MW-09B	N1	46.30	85.30
9	DMW-009-042014	WG	5/21/2014	1145	TH R	X		MW-09D	N1	131.00	136.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**	**Received by:** *(Signature)*	**Date**	**Time**
Toby D Hinz	5-22-14	1600	[illegible]	5-23-14	0900

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 6248 4203

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 052114

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

	Event: Second Quarter 2014											
						Analytical Test Method	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds				
								1				
	Sample ID	Matrix	Date	Time	Samp Init.				Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
10	AMW-0136-042014	WG	5/21/2014	1310	TH R		X		MW-136A	N1	99.50	109.00
11	BMW-0136-042014	WG	5/21/2014	1325	TH R		X		MW-136B	N1	65.00	74.50
12	DMW-0136-042014	WG	5/21/2014	1335	TH R		X		MW-136D	N1	120.00	124.40
13	EMW-0136-042014	WG	5/21/2014	1345	TH R		X		MW-136E	N1	40.50	60.00
14	AMW-0137-042014	WG	5/21/2014	1355	TH R		X		MW-137A	N1	93.20	102.70
15	BMW-0137-042014	WG	5/21/2014	1405	TH R		X		MW-137B	N1	62.60	72.10
16	EMW-0137-042014	WG	5/21/2014	1415	TH R		X		MW-137E	N1	42.35	62.05
17	AMW-040-042014	WG	5/21/2014	1445	TH R		X		MW-40A	N1	120.50	125.50
18	BMW-040-042014	WG	5/21/2014	1455	TH R		X		MW-40B	N1	54.00	64.00
19	AMW-061-042014	WG	5/21/2014	0945	TH R		X	X	MW-61A	N1	75.70	85.70
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	**Date**	**Time**
Toby R. Hinz	5-22-14	1600

Received by: *(Signature)*	**Date**	**Time**
[illegible]	5-23-14	0900

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 6248 4203

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

349330

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 052114

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
							1				
20	AMW-261-042014	WG	5/21/2014	0945	TH R	X	X	MW-61A	FD1	75.70	85.70
21	BMW-061-042014	WG	5/21/2014	1000	TH R	X	X	MW-61B	N1	25.00	35.00
22	BMW-061-042014MS	WG	5/21/2014	1000	TH R	X	X	MW-61B	MS1	25.00	35.00
23	BMW-061-042014MSD	WG	5/21/2014	1000	TH R	X	X	MW-61B	SD1	25.00	35.00
24	DMW-061-042014	WG	5/21/2014	1020	TH R	X	X	MW-61D	N1	97.00	102.00
25	AMW-072-042014	WG	5/21/2014	1530	TH R	X		MW-72A	N1	88.00	108.00
26	AMW-073-042014	WG	5/21/2014	1425	TH R	X		MW-73A	N1	88.00	108.00
27	BMW-073-042014	WG	5/21/2014	1435	TH R	X		MW-73B	N1	40.00	70.00
28	AMW-078-042014	WG	5/21/2014	1510	TH R	X		MW-78A	N1	85.00	105.00
29	BMW-078-042014	WG	5/21/2014	1520	TH R	X		MW-78B	N1	40.00	70.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**	**Received by:** *(Signature)*	**Date**	**Time**
Toby D. Hirz	5-22-14	1600	[illegible]	5-23-14	0900

Shipping Date / Carrier / Airbill Number

Fed-ex 7700 6248 4203

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
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COC # 052714

349620

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
							1					
1	TRB-272-042014	WQ	5/27/2014	0910		X		FIELDQC	TB1	0.00	0.00	
2	AMW-0102-042014	WG	5/27/2014	0935	TH RR	X		MW-102A	N1	117.00	127.00	
3	BMW-0102-042014	WG	5/27/2014	0945	TH RR	X		MW-102B	N1	50.00	60.00	
4	AMW-0103-042014	WG	5/27/2014	1000	TH RR	X		MW-103A	N1	116.00	126.00	
5	BMW-0103-042014	WG	5/27/2014	1015	TH RR	X		MW-103B	N1	50.00	60.00	
6	DMW-0103-042014	WG	5/27/2014	1025	TH RR	X		MW-103D	N1	130.00	135.00	
7	AMW-0104-042014	WG	5/27/2014	1315	TH RR	X	X	MW-104A	N1	31.10	40.60	

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	**Date**	**Time**
Toby Hiz	5-28-14	1600

Received by: *(Signature)*	**Date**	**Time**
[illegible]	5-29-14	0905

Shipping Date / Carrier / Airbill Number

Fedex 7701 1073 1410

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CHAIN-OF-CUSTODY RECORD

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COC # 052714

HGL HydroGeoLogic, Inc Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

	Event: Second Quarter 2014											
						Analytical Test Method	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds				
								1				
	Sample ID	Matrix	Date	Time	Samp Init.				Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
8	BMW-0104-042014	WG	5/27/2014	1330	TH RR	X	X		MW-104B	N1	15.10	24.60	
9	DMW-0104-042014	WG	5/27/2014	1345	TH RR	X	X		MW-104D	N1	44.60	49.10	
10	OMW-0104-042014	WG	5/27/2014	1400	TH RR	X	X		MW-104O	N1	5.30	7.30	
11	AMW-0138-042014	WG	5/27/2014	1035	TH RR	X			MW-138A	N1	117.10	126.60	
12	BMW-0138-042014	WG	5/27/2014	1045	TH RR	X			MW-138B	N1	64.49	73.99	
13	AMW-0139-042014	WG	5/27/2014	1100	TH RR	X			MW-139A	N1	131.50	141.00	
14	BMW-0139-042014	WG	5/27/2014	1110	TH RR	X			MW-139B	N1	71.33	81.20	
Cooler # 1		**Turnaround Time:**											

Relinquished by: *(Signature)*	**Date**	**Time**
Toby Hinz	5-28-14	1600

Received by: *(Signature)*	**Date**	**Time**
[signature]	5-29-14	0905

Shipping Date / Carrier / Airbill Number
Fed-ex 7701 1073 1410

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CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
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COC # 052714

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
							1					
15	AMW-0150-042014	WG	5/27/2014	1230	TH RR	X	X	MW-150A	N1	90.00	90.00	
16	BMW-0150-042014	WG	5/27/2014	1245	TH RR	X	X	MW-150B	N1	75.00	75.00	
17	BMW-072-042014	WG	5/27/2014	0910	TH RR	X		MW-72B	N1	40.00	70.00	
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	**Date**	**Time**
Toby Hiu 2	5-28-14	1600

Received by: *(Signature)*	**Date**	**Time**
[illegible]	5-29-14	0905

Shipping Date / Carrier / Airbill Number

Fed-ex 7701 1073 1410

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

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COC # 052814

349470

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
						Analytical Test Method						
							1					
1	TRB-2105-042014	WQ	5/28/2014	0910		X		FIELDQC	TB1	0.00	0.00	
2	AMW-0105-042014	WG	5/28/2014	0910	TH RR	X	X	MW-105A	N1	30.17	39.67	
3	AMW-2105-042014	WG	5/28/2014	0910	TH RR	X	X	MW-105A	FD1	30.17	39.67	
4	BMW-0105-042014	WG	5/28/2014	0930	TH RR	X	X	MW-105B	N1	14.75	24.25	
5	BMW-0105-042014MS	WG	5/28/2014	0930	TH RR	X	X	MW-105B	MS1	14.75	24.25	
6	BMW-0105-042014MSD	WG	5/28/2014	0930	TH RR	X	X	MW-105B	SD1	14.75	24.25	
7	OMW-0105-042014	WG	5/28/2014	0945	TH RR	X	X	MW-105O	N1	5.00	6.60	
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
Toby D. Hinz	5-29-14	1600	[signature]	5-30-14	0915	Fed-ex 7701 2679 1930
						Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
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COC # 052814

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Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
							1					
8	AMW-0109-042014	WG	5/28/2014	1240	TH RR	X	X	MW-109A	N1	36.85	46.35	
9	AMW-2109-042014	WG	5/28/2014	1240	TH RR	X	X	MW-109A	FD1	36.85	46.35	
10	BMW-0109-042014	WG	5/28/2014	1300	TH RR	X	X	MW-109B	N1	19.20	28.70	
11	BMW-0109-042014MS	WG	5/28/2014	1300	TH RR	X	X	MW-109B	MS1	19.20	28.70	
12	BMW-0109-042014MSD	WG	5/28/2014	1300	TH RR	X	X	MW-109B	SD1	19.20	28.70	
13	OMW-0109-042014	WG	5/28/2014	1315	TH RR	X	X	MW-109O	N1	6.70	9.20	
14	AMW-0111-042014	WG	5/28/2014	1000	TH RR	X	X	MW-111A	N1	31.23	40.73	
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	**Date**	**Time**
Toby D. Hinz	5-29-14	1600

Received by: *(Signature)*	**Date**	**Time**
[signature]	5-30-14	0915

Shipping Date / Carrier / Airbill Number

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Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
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COC # 052814

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Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
							1					
15	BMW-0111-042014	WG	5/28/2014	1015	TH RR	X	X	MW-111B	N1	14.50	24.00	
16	OMW-0111-042014	WG	5/28/2014	1030	TH RR	X	X	MW-111O	N1	5.00	6.50	
17	AMW-0140-042014	WG	5/28/2014	1330	TH RR	X		MW-140A	N1	37.00	46.50	
18	BMW-0140-042014	WG	5/28/2014	1345	TH RR	X		MW-140B	N1	13.00	22.50	
19	DMW-0140-042014	WG	5/28/2014	1400	TH RR	X		MW-140D	N1	57.10	61.50	
20	OMW-0140-042014	WG	5/28/2014	1415	TH RR	X		MW-140O	N1	6.50	9.00	
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	**Date**	**Time**
Toby O Hill	5-29-14	1600

Received by: *(Signature)*	**Date**	**Time**
JP	5.30-14	0915

Shipping Date / Carrier / Airbill Number
Fed-ex 7701 2679 1930

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

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APPENDIX B

FIELD FORMS

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[illegible] 2-4-14

[illegible]

MW/TH

1345 Arrive @ MW-150 close

1355 collected MW-150A

- 6 2 Ts
- Explosives 2x 250ml Amber

1355 collected MW-150E

- 10 500g
- Explosives 2x 250ml Amber

Meyer 2-4-14

[illegible] Nebraska May 13, 2014

[illegible] Mead FNSB / USACE

2nd QTR SE 2014

Toby D. Hiz (HEL)

Ron Romond (HEL)

All wells are 2" PVC unless noted.

Sunny 45°F

0815 MW-042 A WL 54.71

6 vol's / 4 Ex's

8260B / 8330

AMW-042-042014 TQC

0830 MW-42B WL-54.81

BMW-042-042014

9 vol's / 6 Ex's

8260B / 8330 + MS + MSD

0845 MW-42D 54.52

DMW-042-042014

3 vol's / 2 Ex's

8260B / 8330

0930 MW-43A WL-47.82

3 vol's / 2 Ex's

AMW-042-042014

8260B / 8330

MW-43B WL-47.67

0945 3 vol's / 2 Ex's BMW-042-042014

8260B / 8330

✓ ✓

Date 5-13-14

Continued

1000 [mw-130] 47.28 Ft.
Dmw-043-042014
3 vol's / 2 Exp's
8330 / 8260B

1020 [mw-18A] wl 45.82
Amw 018 042014
4 well 3 vol's / 8260B / 2 Exp's
8260B / 8330

1040 [mw-18B] wl 46.51
Bmw 018-042014
3 vol's / 2 Exp's
8260B / 8330

1100 [mw-18C] wl 44.20
C mw-018-042014
4 well 3 vol's / 2 Exp's
8260B / 8330

1120 [mw-152B] 44.90
Bmw-0152-042014
3 vol's / 2 Exp's
8260B / 8330

1140 [mw-151A] wl 47.18
Amw-0152-042014
3 vol's / 2 Exp's
8260B / 8330

Date 5-13-14

Continued

1115 [mw-152B]
3 vol's / 2 Exp's
8260B / 8330
Bmw-0152-042014

1130 [mw-153A] wl 48.00
Amw-0153-042014
3 vol's / 2 Exp's
8260B / 8330

1145 [mw-153B] wl 48.12
Bmw-0153-042014
3 vol's / 2 Exp's
8260B / 8330

1310 [mw-154A] wl - 49.69
Amw-0154-042014
3 vol's / 2 Exp's
8260B / 8330

1320 [mw-154B] 49.30
Bmw-0154-042014
3 vol's / 2 Exp's
8260B / 8330

1335 [mw-155A] wl 49.50
Amw-0155-042014
3 vol's / 2 Exp's
8260B / 8330

Date 5-13-14

Continued

[mw-155 E] 49.38 FT
Emw-0155-042014
3 Exp's / 2 Exp's
2200 B / 8330

1345

1400 [mw-130 A] wl-59.00
Amw-0130-042014
3 Exp's / 2 Exp's
8330

1415 [mw-130 B] wl-59.36
Bmw-0130 042014
8330 / 2 Exp's

1430 [mw-130 D] wl-58.62
Dmw-0130-042014
8330 / 2 Exp's

1435 [mw-129 A] wl-61.66
Amw-0129-042014
2 Exp's / 8330

1445 [mw-129 B] wl-60.60
Bmw-0129-042014
2 Exp's / 8330

1455 [mw-129 D] wl-61.21
Dmw-0129-042014
2 Exp's / 8330

Date 5-13-14

2nd QTR mw SE Continued

[mw-99 A] wl-71.91
1505 2 Exp's / 8330
Amw-099-0

1515 [mw-99 B] wl-72.08
Bmw-099-042014
2 Exp's / 3 wx's

1525 [mw-99 D] wl-71.70
Dmw-099-042014
2 Exp's

1540 [Amw-0131 A] wl-57.62
Amw-0131-042014
2 Exp's / 8330

1550 [mw-131 B] wl-57.45
Bmw-0131-042014
2 Exp's / 8330

1600 [mw-131 D] wl-57.57
Dmw-0131-042014
2 Exp's / 8330

1620 At Plant
1640 Leaving Plant
Evening Reports
1 H

Road / [illegible] Date 5-14-14

Road FMF / 43 ACF

2nd GTK SE

Sunny 43°F 5 mph wind

Tony / Ron (HEL)

Ron Kenny (HEL)

0830 mw-128A wl-63.04

Amw-0128-042014

2 Exp's / 8260B

0840 mw-127B wl-63.05

Bmw-0128-042014

2 Exp's / 8260B

0900 mw-100A 56.75 [illegible]

Amw-0100-042014

3 wd's / 2 Exp's 8330/8260B

0915 mw-100B wl-56.71

Bmw-0100-042014

3 wd's / 2 Exp's 8260B / 8330

0930 Amw-0100-042014

mw-100D wl-52.81

8260B/8330 3 wd's / 2 Exp's

mw-99A wl 57.32

0935 Amw-099 042014

3 wd's / 2 Exp's 8330/8260B

mw-99B wl-57.32

0945 Bmw-099 042014

3 wd's / 2 Exp's 8260B / 8330

Date 5-14-14

3rd GTK MW SE Continued

mw-97D wl-52.38

1000 Dmw-097-042014

3 wd's / 2 Exp's 8260B / 8330

1015 mw-97A wl-51.15

Amw-097 042014

3 wd's / 2 Exp's 8260B / 8330

1025 mw-97B wl-51.23

Bmw-097-042014

3 wd's / 2 Exp's 8260B / 8330

1035 mw-97D wl-51.28

3 wd's / 2 Exp's 8260B / 8330

Dmw-097-042014

1045 mw-83B wl-57.49

Bmw-083 042014

3 wd's / 2 Exp's 8260B/8330

1105 Amw-096-042014

mw-96A wl-53.91

8260B / 8330 3 wd's / 8260B

1115 mw-96B wl-

3 wd's / 2 Exp's

8330 / 8260B

1125 Dmw-096 042014

mw-96D

3 wd's / 2 Exp's 8260B / 8330

Date 5-14-14

2nd QTR MW SE Continued

[MW-180A] WL-63.18

1145 AMW-0120-042014

2 Exp / 8330

1155 [MW-180E] WL-63.31

EMW 0120 042014

2 Exp / 8330

1355 [MW-146A] WL 44.72

AMW-0146-042014 + QC

2 Exp / 3 vol's 8260B / 8330

1410 [MW-146B] WL 44.55

BMW-0146-042014

2 Exp's / 3 vol's 8260B / 8330

1420 [MW-32A] WL-51.71

AMW-032-042014

3 vol's / 2 Exp's 8260B / 8330

1430 [MW-32B] WL-51.57

BMW-032-042014

3 vol's / 2 Exp's 8330 / 8260B

1440 [MW-32D] WL-

DMW-032-042014

3 vol's / 2 Exp's 8330 / 8260D

Mead / Nebraska Date 5-15-14

Mead FNW / USACE

2nd QTR MW SE 2014

Tony O Hare (HGL)

Ron Ramold (HGL)

Sunny 38°F 10-20 mph

0900 [MW-20A] WL 61.25

AMW-020-042014 + QC

6 vol's / 4 Exp's 8260B / 8330

0915 [MW-20B] WL-61.11

BMW-020-042014 + MS/MSD

9 vol's / 6 Exp's 8260B / 8330

0930 [MW-20C] 59.62 FT

CMW-020-042014

3 vol's / 2 Exp. 8260B / 8330

0945 [MW-101A] WL-7.70

AMW-0101-042014

3 vol's / 2 Exp's 8330 / 8260B

1000 [MW-101B] WL-7.68

BMW-0101-042014

3 vol's / 2 Exp's 8260B / 8330

1015 [MW-101D] WL-7.39

DMW-0101-042014

3 vol's / 2 Exp's 8330 / 8260B

1030 [MW-93A] WL-23.71

AMW-093-042014

3 vol's / 8260B

Continued

1015 [Amw - 43 B] wl - 2328
Bmw 043 042014
3 vials / 8260B

1110 [mw - 91 A] wl - 4946
Amw - 091 - 04 2014
3 vials / 8260B

1120 [mw - 91 B] wl - 4961
Bmw - 091 - 042014
3 vials / 8260B

1145 [mw - 91 D] wl - 4882
Dmw - 091 - 042014
3 vials / 8260B

1145 [mw - 90 A] wl - [illegible]
Amw - 090 - 042014
3 vials / 2 Exp's 8330 / 8260B

1300 [mw - 90 B] wl - 4934
Bmw - 090 - 042014
3 vials / 2 Exp's 8330 / 8260B

1315 [mw - 90 D] wl 4933
Dmw - 090 - 042014
3 vials / 2 Exp's 8330 / 8260B

1325 [mw 89 A] wl - 5849
3 vials / 8260B
Amw - 089 - 042014

↓ ↓

Continued

1335 [mw - 89 B] wl - 5919
Bmw - 089 042014
3 vials / 8260B

1345 [mw - 89 D] wl 5801
Dmw - 089 - 042014
3 vials / 8260B

1400 [mw - 89 E] wl - 5530
Emw 089 - 042014
3 vials / 8260B
2 Exp's / 8330

1415 [mw - 142 A] wl - 4914
Amw - 0142 - 042014
3 vials / 2 Exp's 8330 / 8260B

1430 [mw - 142 E] wl - [illegible]
Emw - 0142 042014
3 vials / 2 Exp's 8260B / 8330

1445 [mw - 145 A] wl - 4966
Amw - 0145 - 042014
2 Exp's / 8260B

1455 [mw - 145 E] wl - 4921
Emw - 0145 - 042014
2 Exp's / 8260B

↓ ↓

Date 5-15-14

Continued

1505 [mw-144A] wl-42.25
Amw-0144-042014
2 Exp / 8260B

1515 [mw-144E] wl-42.46
Emw-0144-042014
2 Exp's / 8260B

1525 [mw-148B] wl-45.45
Bmw-0148-042014 + QC
4 Exp's / 6 vol's 8330/8260B

1545 [mw-149A] wl-
Amw-0149-042014 + QC
4 Exp's / 6 vol's 8260B/8330

1610 [mw-143B] 47.69
Bmw-0143-012014
3 vol's / 2 Exp's 8260B/8330

TH

Date 5-16-14

Mod FNR / 45ACE
2nd QTR SE 2014

Cloudy 55°F
1 Day 6 Hrs (HCL)

1200 [mw-157A] wl-20.01
Amw-0157-042014
3 vol's / 2 Exp's 8260B/8330

1215 [mw-157B] 19.28
Bmw-0157-042014
3 vol's / 2 Exp's 8330/8260B

1230 [mw-156A] wl-7.35
3 vol's / 2 Exp's 8260B/8330
Amw-0156-042014

1245 [mw-156B] wl-7.25
Bmw-0156-042014
3 vol's / 2 Exp's 8260B/8330

1300 [mw-44A] wl-10.28
Amw-044-042014
3 vol's / 2 Exp's 8260B/8330

1315 [mw-44B] wl-10.06
Bmw-044-042014
3 vol's / 2 Exp's 8260B/8330

1330 [mw-44D] wl-9.03
Dmw-044-042014
3 vol's / 2 Exp's 8260B/8330

24

Location: Date: 5-16-14

Continued

2nd OTR MW SE 2014

1345 [MW-8LA] wl 33.36

AMW-0?6 042014 + QC

6 wds / 4 Exs 8330 / 8260B

1400 OK [MW-8LB] wl-33.74

BMW-0?6 04 2014

3 wds / 2 Exs 8330 / 8260B

1410 [MW-8CB] wl-33.11

CMW-0?6-042014

3 wds / 2 Exs 8330 / 8260B

1420 At plant Parking

and Cleaning up

1300 End of Day

Mead, Nebraska Date 5-19-14

Mead PRP / USACE

2nd QTR SE 2014

Tony Hinz (HCL)

Ron Ramold

Cloudy 68°F windy 20 mph

0955 [MW-03A] wl-44.45

4 Exs / 6 wds

QC 8330 / 8260B AMW-003-042014

1015 ms/msD [MW-03B] wl-44.52

BMW-003-042014

4 wds / 6 Exs 8260B / 8330

1045 QC [MW-02A] wl-41.17

AMW-002-042014

6 wds / 12 Exs 8260B / 8330

1115 [MW-02B] wl-41.61

BMW-002-042014

ms/msD 6 Exs / 4 wds 8260B / 8330

1130 [AMW-0127-042014] wl-35.82

MW-127A

3 wds / 2 Exs 8260B / 8330

1145 [MW-127B] wl-34.15

BMW-0127-042014

3 wds / 2 Exs 8260B / 8330

1200 [MW-127E] wl-34.45

EMW-0127-042014

3 wds / 2 Exs 8260B / 8330

Location: Date: 5-19-14

Project / Client:

Continued water sampling

1215 MW-126 A wl-41.59
A mw-0126-042014
3 vol's / 2 Exp's 8260B / 8330

1230 MW-126 B wl-41.95
B mw-0126-042014
3 vol's / 2 Exp's 8260B / 8330

1245 MW-126 D wl-40.84
D mw-0126-042014
3 vol's / 2 Exp's 8260B / 8330

1335 MW-24A wl-5'.20
A mw-024-042014
~~3 vol's~~ / 2 Exp's ~~8260B~~ / 8330

1345 MW-24B wl-52.24
B mw-024-042014
2 Exp's / 8330

1400 MW-125 A wl-47.00
A mw-0125-042014
3 vol's / 2 Exp's 8260B / 8330

1415 MW-125 B wl-
B mw-0125-042014 + QC
6 vol's / 4 Exp's 8260B / 8330

1430 MW-125 D wl-46.65
D mw-0125-042014
3 vol's / 2 Exp's 8260B / 8330

Location: Date: 5-19-14

Project / Client:

Continued water sampling

1445 MW-124 A wl-43.80
A mw-0124-042014
3 vol's / 2 Exp's 8260B / 8330

1500 MW-124 B wl-43.51
B mw-0124-042014 + QC
6 vol's / 4 Exp's 8260B / 8330

1515 MW-124 D wl-44.12
D mw-0124-042014
3 vol's / 2 Exp's 8260B / 8330

1530 MW-21 A wl-37.66
A mw-021-042014
3 vol's / 2 Exp's 8260B / 8330

1545 MW-21 B wl-37.66
B mw-021-042014
3 vol's / 2 Exp's 8260B / 8330

1600 MW-21 D wl-37.65
D mw-021-042014
3 vol's / 2 Exp's 8260B / 8330

Mead, Arkansas 5-20-14
Mead FWP
2nd QTR MW SE 2014

Toby D 17.42 > HGL
Ron Randall

0930 MW-32A wl-50.11
2 Exp's / 8330
AMW-032-042014

0940 MW-32B wl-50.04
2 Exp's / 8330
BMW-032-042014

0950 MW-32D wl-49.96
DMW-032-042014
2 Exp's / 8330

1000 MW-33A wl-54.16
AMW-033-042014
2 Exp's / 8330

1010 MW-33B wl 54.17
BMW-033-042014
2 Exp's / 8330

1020 MW-33D wl-53.91
DMW-033-042014
2 Exp's / 8330

1030 MW-65B wl-35.12
BMW-065-042014
2 Exp's / 8330

✓ ✓

5-20-14

2nd QTR SE Continued

1100 MW-24A wl 42.49
AMW-024-042014
3 vac's / 2 Exp's 8260B / 8330

1115 MW-24B wl-42.26
BMW-024-042014
3 vac's / 2 Exp's 8260B / 8330

1130 MW-141A wl 38.85
AMW-0141-042014 + GL
3 vac's / 2 Exp's 8260B / 8330

1145 MW-141B wl 32.85
BMW-0141-042014
3 vac's / 2 Exp's 8260B 8330

1200 MW-141E wl-38.83
EMW-0141-042014
3 vac's / 2 Exp's 8260B / 8330

1215 MW-25A wl-45.03
AMW-025-042014
3 vac's / 2 Exp's 8260B / 8330

1230 MW-25B wl-45.42
BMW-025-042014
3 vac's / 2 Exp's 8260B / 8330

1340 MW-94A wl-50.14
AMW-094-042014
2 Exp's 8330

✓ ✓

Date 5-2014

Continued 2nd QTR mw

1350 [mw-44B] wl 50.09
Bmw-044-042014
2 Exp's / 2330

1415 [mw-28A] wl 52.63
Amw-028-042014
2 Exp's / 8330

1430 [mw-28B] wl 53.17
Bmw-028-042014
2 Exp's / 8330

1440 [mw-28D] wl 52.42
Dmw-028-042014
2 Exp's / 8330

1500 mw-011-042014
[mw-11] wl 34.12
2 Exp's

1530 Back at Plant
Unloading and Loading Cuttings

Date 5-2014

Mead, Nebraska
Mead FNA / USACE
2nd QTR mw SE 2014

Toby D. } HGL
Ken Kenwold

Sunny 70°F 10-15 mph wind

0945 [mw-61A] wl 61.82
Amw-061-042014 + QC
6 vol's / 4 Exp's 8260B / 8330

1000 [mw-61B] wl 6.83
Bmw-061-042014 MS/MSD
9 vol's / 6 exp's 8260B / 8330

1010 [mw-61D] wl 6.72
Dmw-061-042014
2 Exp's / 3 vol's 8260B / 8330

1045 [mw-08A] 50.91
Amw-008-042014 + QC
6 vol's / 8260B 4 Exp's / 8330

1100 [mw-08B] 50.92
Bmw-008-042014
6 Exp's / 8330 9 vol's / 8260B

1125 [mw-09A] wl 56.41
Amw-009-042014
3 vol's / 8260B

1135 [mw-09B] wl 56.15
Bmw-009-042014
3 vol's / 8260B

Continuing 2nd GTR MW 2E

1245 MW-040 wl-55.95
CMW-004-042014
3 VOC'S / 8260B

1310 MW-136A wl-46.63
AMW-0136-042014
3 VOC'S / 8260B

1325 MW-136B wl-46.54
BMW-0136-042014
3 VOC'S / 8260B

1335 MW-136D wl-46.15
DMW-0136-042014
3 VOC'S / 8260B

1345 MW-136E wl-46.08
EMW-0136-042014
3 VOC'S / 8260B

1355 MW-137A wl-39.52
AMW-0137-042014
3 VOC'S / 8260B

1405 MW-137B wl-39.54
BMW-0137-042014
3 VOC'S / 8260B

1415 MW-137E wl-39.64
EMW-0137-042014
3 VOC'S / 8260B

Continued

1425 MW-73A wl-40.77
AMW-073-042014
3 VOC'S / 8260B

1435 MW-73B wl-
BMW-073-042014
3 VOC'S / 8260B

1445 MW-40A wl-44.93
AMW-040-042014
3 VOC'S / 2EX'S

1455 MW-40B wl-45.30
BMW-040-042014
3 VOC'S / 8260B

1510 MW-78A wl-38.45
AMW-078-042014
3 VOC'S / 8260B

1520 MW-78B wl-39.
BMW-078-042014
3 VOC'S / 8260B

1530 MW-72A wl-43.62
AMW-072-042014
3 VOC'S / 8260B

1545 MW-72B wl-43.19
3 VOC'S / 8260B
BMW-072-042014

1[illegible] At Plant ↓ End ↓ (TA)

Location: Mead, Nebraska Date: 5-27-14

Project / Client: Mead FNOP / USACE

2nd QTR MW SE 2014

Toby Hiz > AGL

Ron Rayda

0910 [MW-72B] 43.15

BMW-072-042014

3 vol's / 8260B

0935 [MW-102A] wl-38.12

AMW-0102-042014

3 vol's / 8260B

0945 [MW-102B] wl 38.89

BMW-0102-042014

3 vol's / 8260B

1000 [MW-103A] wl-45.05

AMW-0103-042014

3 vol's

1015 [MW-103B] wl-44.79

BMW-0103-042014

3 vol's / 8260B

1025 [MW-103D] wl-44.71

DMW-0103-042014

1035 [MW-138A] wl-45.75

AMW-0138-042014

3 vol's / 8260B

1045 [MW-138B] WL-46.14

BMW-0138-042014

3 vol's

Date 5-27-14

Continued

1100 [MW-139A] wl-46.82

AMW-0139-042014

3 vol's / 8260B

1110 [MW-139B] wl-47.28

BMW-0139-042014

3 vol's / 8260B

1230 [MW-150A] wl-50.28

AMW-0150-042014

3 vol's / 2 EXP's 8260B / 8330

1245 [MW-150B] wl-50.15

BMW-0150-042014

3 vol's / 2 EXP's 8260B / 8330

1315 [MW-104A] wl-3.09

AMW-0104-042014

3 vol's / 2 EXP's 8260B / 8330

1330 [MW-104B] wl-2.95

BMW-0104-042014

3 vol's / 2 EXP's 8260B / 8330

1345 [MW-104D] wl-3.49

DMW-0104-042014

3 vol's / 2 EXP's 8260B / 8330

1400 [MW-104C] wl-2.48

3 vol's / 2 EXP's 8260B / 8330

CMW-0104-042014

End of Day

Location Mead, Nebraska Date 5-8-14

Project (Client) Mead, FNOP / USACE

2nd QTR MW SE 2014

Toby Hill / HGL

Roy Ramold

Sunny 90° High

0910 MW-105A WL-4.18

AMW-0105-042014 + QC

6 vocs / 4 Exx's 8260B / 8330

0930 MW-105B WL-4.30

BMW-0105 042014

MS/MSD 4 vocs / 6 Exx's 8260B/8330

0945 MW-105D WL-5.62

DMW-0105-042014

3 vocs / 2 Exx's 8260B/8330

1000 MW-111A WL-4.69

AMW-0111-042014

3 vocs / 2 Exx's 8260B / 8330

1015 MW-111B WL-4.42

BMW-0111-042014

3 vocs / 2 Exx's 8260B/8330

1030 MW-111C WL-5.18

DMW-0111-042014

3 vocs / 2 Exx's

1240 MW-109A WL-3.58

AMW-0109-042014 + QC

6 vocs / 4 Exx's 8260B / 8330

Date 5-8-14

Continued

1300 MW-109B WL-3.09

BMW-0109-042014 + MS + MSD

6 Exx's / 9 VOCs 8260B / 8330

1315 MW-109D WL-6.27

DMW-0109-042014

3 vocs / 2 Exx's

1330 MW-140A WL-7.31

AMW-0140 042014

3 vocs / 8260B

1345 MW-140B WL-7.11

BMW-0140-042014

3 vocs / 8260B

1360 MW-140D WL-7.10

DMW-0140 042014

3 vocs / 8260

1415 DMW-0140-042014 WL-8.84

MW-140-0 WL

3 vocs / 8260B

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0129-041 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1435

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, AR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0129042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1445

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0129-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1455

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0130-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1400

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, RL~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0130-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1415

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	HCl, ice		8260B	VOCs, AK
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0130-041 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1425

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, AR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0131-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1540

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, RR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-C131-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1550

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, BR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Randd

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0131-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1600

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, AK
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0151-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1100

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0151-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1115

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0152-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1045

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0153-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1130

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0153-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1145

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0154-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1310

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0154-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1320

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0155-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1335

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: FMW-0155-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1345

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-018-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1010

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-018-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1020

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: CMW-018-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1030

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-042-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 0815

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-242-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-042-04 2014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 0815

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-042-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 0830

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	~~2~~ 1	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Heinz OBSERVER: Ron Ramdd

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-042-04 2014MS

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 0830

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-042-042014 MSD

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-042-042014 MS

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 0830

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	~~2~~ 1	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-042-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 0845

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-043-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 0930

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-043-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 0945

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-043-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-099-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1505

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	3	HCl, ice		8260B	VOCs, RR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-099-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1515

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-13-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-099-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-13-14 TIME: 1525

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, BR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0100-04204

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 0900

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0100-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 0915

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramdl

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0100-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 0925

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0128-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 0830

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, RPC
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Randall

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0128-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 0840

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, RC~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0146-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1355

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-2146-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-0146-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1355

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0146-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF:

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1410

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0180-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1145

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, AR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-0180-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB X COMPOSITE ( ) DATE: 5-14-14 TIME: 1155

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs~~, RR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-082-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1420

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-082-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1430

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-082-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1440

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-083-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1045

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-096-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB X COMPOSITE ( ) DATE: 5-14-14 TIME: 1105

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-096-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB X COMPOSITE ( ) DATE: 5-14-14 TIME: 1115

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-096-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1125

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-097-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1015

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-097-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB X COMPOSITE ( ) DATE: 5-14-14 TIME: 1025

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-097-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB X COMPOSITE ( ) DATE: 5-14-14 TIME: 1035

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-098-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 0935

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-098-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 0945

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-14-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-098-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-14-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0101-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-14 TIME: 0945

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0101-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0101-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-14 TIME: 1015

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0142-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-14 TIME: 1415

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature Dissolved oxygen N/A Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramoid

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-0142-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-14 TIME: 1430

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0143-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-14 TIME: 1610

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0144-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-14 TIME: 1505

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, PR~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-0144-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-14 TIME: 1515

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		8260B	VOCs, AR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature Dissolved oxygen N/A Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0145-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1445

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, RR~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-0145-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1455

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		8260B	VOCs, MC
250 mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0148-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1525

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-2148-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-0148-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1525

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	~~2~~ 1	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0149-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1545

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-2149-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-0149-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1545

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-020-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 0900

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-220-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-020-04 2014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 0900

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-020-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 0915

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-020-042014MS

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 0915

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	~~2~~ 1	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-020-042014MSD

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-020-042014MS

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 0915

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramsell

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: CMW-C20-C4 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 0930

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-089-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1325

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	2	ice		8330	Explosives RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-089-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1335

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives RR~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-089-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1345

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		8330	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH N/A Temperature N/A Dissolved oxygen N/A Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-089-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1400

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-090-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1245

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-090-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1300

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature Dissolved oxygen N/A Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Heinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-090-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1315

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-091-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1115

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ BR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-091-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1130

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	2	ice		8330	Explosives AR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-091-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1145

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ PR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-093-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1030

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives RR~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-15-2014

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-093-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-15-2014 TIME: 1045

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0156-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1230

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0156-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1245

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Itinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0157-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1200

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0157-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1215

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-044-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1300

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR ✓ OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-044-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1315

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-044-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1330

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR ✓ OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-086-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1345

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-286-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-086-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1345

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-086-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1400

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-16-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-086-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-16-14 TIME: 1410

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-002-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1045

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-202-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-002-04 2014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1045

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-002-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1115

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-002-042014MS

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (✓) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1115

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-002-042014MSD

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-002-04 2014MS

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1115

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	~~2~~ 1 AC	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-003-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 0955

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-203-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-003-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 0955

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	~~2~~ 1	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-003-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1015

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-003-042014MS

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1015

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-003-042014MSD

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-003-042014MS

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1015

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	~~2~~ 1	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0124-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1445

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0124-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1500

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-2124-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-0124-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB X COMPOSITE ( ) DATE: 5-19-14 TIME: 1500

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0124-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1400

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0125-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1400

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0125-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1415

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-2125-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-0125-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1415

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0125-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1430

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0126-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1215

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0126-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1230

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0126-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1245

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0127-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1130

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0127-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1145

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-0127-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1200

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-021-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1530

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-021-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1545

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-021-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1600

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-029-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1335

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs~~ AR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-19-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-029-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-19-14 TIME: 1345

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, BR~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: MW-011-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1500

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, RR~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0141-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1130

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramall

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-2141-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-0141-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1130

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0141-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1145

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-0141-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1200

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-024-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1100

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-024-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1115

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-025-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1215

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-025-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1230

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-028-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1415

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs~~, PR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-028-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1430

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, RR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-028-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1440

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs~~, RR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-032-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 0930

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, AR~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramall

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-032-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 0940

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	HCl, ice		~~8260B~~	~~VOCs~~, AR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-032-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 0950

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, PR~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-033-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, RR~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH N/A Temperature N/A Dissolved oxygen N/A Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-033-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1010

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs~~, RR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-033-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1020

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40 mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, BR~~
250 mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-065-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1030

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, BTEX~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-094-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1340

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs, AR
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-20-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-094-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-20-14 TIME: 1350

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
~~40mL VOA~~	~~3~~	~~HCl, ice~~		~~8260B~~	~~VOCs, RR~~
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-008-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1045

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature Dissolved oxygen N/A Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-208-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-008-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1045

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-008-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1100

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-008-042014 MS

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1100

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-008-042014MSD

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-008-042014MS

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (✓) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1100

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	~~2~~ 1	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-009-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1125

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-009-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1135

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-009-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1145

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250ml Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0136-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1310

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ PR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0136-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1325

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ PR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0136-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1335

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-0136-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1345

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0137-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1355

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0137-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1405

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ PR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: EMW-0137-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1415

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-040-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1445

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-040-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1455

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-061-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (✓)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 0945

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-261-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-061-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 0945

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-061-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-061-042014MS

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-061-042014MSD

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-061-042014MS

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-061-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1020

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-022-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1530

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	2	ice		8330	Explosives RK

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-073-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1425

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives RM~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-073-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1435

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-078-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1510

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-21-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-078-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-21-14 TIME: 1520

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0102-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 0935

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0102-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 0945

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb.~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0103-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ AR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0103-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1015

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hiaz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0103-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1025

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0104-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1315

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hiaz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0104-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1330

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0104-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1345

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: OMW-0104-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1400

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0138-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1035

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0138-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1045

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ AR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0139-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1100

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0139-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1110

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
~~250mL Amb~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0150-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1230

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0150-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 1245

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-27-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-072-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-27-14 TIME: 0910

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ronald

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0109-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1240

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature Dissolved oxygen N/A Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-2109-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-0109-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1240

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
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SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0109-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1300

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs.
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
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SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0109-042014 MS

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1300

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-019-042014 MSD

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-019-042014 MS

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1300

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: OMW-0109-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1315

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramoid

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0140-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1330

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amber~~	~~2~~	~~ice~~		~~8330~~	~~Explosives~~ RR

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0140-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1345

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
~~250mL Amb~~	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: DMW-0140-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1400

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: OMW-0140-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1415

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH ____ Temperature ____ Dissolved oxygen N/A Specific Conductivity ____

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS: ____

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0105-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 0910

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-2105-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: AMW-0105-042014

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 0910

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0105-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 0930

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0105-042014 MS

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (✓) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 0930

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0105-042014MSD

SAMPLING METHOD HydraSleeve DUP./REP. OF: BMW-0105-042014MS

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES (X) NO ( )

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 0930

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: OMW-0105-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 0945

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: G-EL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AMW-0111-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1000

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: FNOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: BMW-0111-042014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1015

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCL, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st N/A	COLOR: Clear	
2nd	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR (X) OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X (X) HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

FIELD SAMPLING REPORT

LOCATION: Mead, NE PROJECT: ENOP

SITE: GMP DATE: 5-28-14

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: OMW-0111-04 2014

SAMPLING METHOD HydraSleeve DUP./REP. OF: N/A

BEGINNING DEPTH N/A MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES ( ) NO (X)

END DEPTH N/A

GRAB (X) COMPOSITE ( ) DATE: 5-28-14 TIME: 1030

CONTAINER SIZE/TYPE	X	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANAYLSIS
40mL VOA	3	HCl, ice		8260B	VOCs,
250mL Amber	2	ice		8330	Explosives

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: Clear	
2nd N/A	ODOR:	
	OTHER:	

pH Temperature N/A Dissolved oxygen Specific Conductivity

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: GEL Labs

COMMENTS:

SAMPLER: Toby Hinz OBSERVER: Ron Ramold

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAP/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP-SUBMERSIBLE PUMP

APPENDIX C

REFERENCE SHEET
DATA VALIDATION QUALIFIERS
DRINKING WATER STANDARDS

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DATA VALIDATION QUALIFIERS AND DRINKING WATER STANDARDS REFERENCE SHEET
FORMER NEBRASKA ORDNANCE PLANT, MEAD, NEBRASKA

Any qualifiers (i.e., U, J, or R) listed after a result are assigned during the data validation process. Data validation is a procedure which involves the review of quality control data provided by the laboratory. This review is followed by the assignment of data qualifiers (if necessary) which indicate the reliability of a result to the reader. Data validation is performed by a chemist employed outside of the laboratory or associated government installations to ensure accuracy in data reporting. A description of qualifiers is provided below.

No qualifier

- If a result has no assigned qualifier, the contaminant was detected, and the reader can be confident that the concentration is exact.

"U"

- A result followed by a "U" qualifier means that the contaminant was undetected, or not detected by the instrument.

"UJ"

- A result followed by a "UJ" qualifier means that the contaminant was not detected, but the associated detection level is not certain (estimated). For example, if a value is followed by a "UJ", the contaminant was not detected, but the associated detection level is in question. The detection level is in question because one or more of the laboratory quality control indicators do not meet acceptance criteria. The amount that the indicator fell outside of the criteria may be used as a rough estimate of how much the actual detection level differs from the stated one. Typically, this is a 10-30 percent difference.

"J"

- A result followed by only a "J" qualifier means that the contaminant was detected, but there is some question that the stated concentration is exact. For example, if a result is "0.5 J", the contaminant was detected, but there is some question that the concentration is exactly 0.5. A "J" qualifier may be applied for two reasons: (1) the contaminant was detected below the reporting limit; or (2) the contaminant was detected, but one or more quality control indicators did not meet acceptance criteria. The reporting limit is equal to the concentration of the lowest standard used by the laboratory to calibrate the instrument. The reporting limit is the minimum concentration that can be stated with complete confidence.

"R"

- A result followed by an "R" qualifier indicates that the result (detection or non-detection) is rejected due to serious deficiencies in the ability to analyze the sample

and meet QC criteria. An "R" qualifier may be applied if, either the contaminant was detected, but there is strong doubt that the concentration is exact, or the contaminant was not detected, but there is strong doubt that the associated detection level is accurate. Example 1 (not detected), the contaminant was not detected, but the associated detection level is in strong doubt. The detection level is in doubt because results are unacceptable for a quality control indicator. In this case, the detection level cannot be estimated. Example 2 (detected), if a result is "0.5 R", the contaminant was detected, but there is strong doubt that the concentration is exactly 0.5. The concentration is in doubt because results are unacceptable for a quality control indicator. In this case, the detected concentration cannot be estimated. The "R" qualified results are not to be used for any decision making purposes, and are not reported.

"MCL"

- The MCL is the highest concentration of a contaminant that is allowed in drinking water. MCLs are enforceable Federal standards.

"HA"

- HA provide estimates of acceptable drinking water concentrations for a chemical substance based on health effects information. HA are not enforceable Federal standards, but serve as a technical guidance to assist Federal, State, and local officials.

APPENDIX D

ANALYTICAL RESULTS ON CD
SUMMARY FORMS AND RAW DATA

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APPENDIX D

QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014 WATER SUPPLY WELL SAMPLING EVENT,
FORMER NEBRASKA ORDNANCE PLANT
(ON CD)

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HGL
HydroGeoLogic, Inc
Exceeding Expectations

Kansas City Operations

August 5, 2014

U.S. Army Corps of Engineers
Attn: Jacqueline Frazier
601 E. 12th Street
Kansas City, MO 64106

RE: Transmittal of Final Quality Control Summary Report
Second Quarter 2014 Water Supply Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska
Contract No. W912DQ-13-D-3000, Task Order No. 0002

Dear Ms. Frazier:

HydroGeoLogic, Inc. (HGL) is pleased to submit an electronic copy (via email) of the Final Quality Control Summary Report for the Second Quarter 2014 Water Supply Welll Sampling Event at the Former Nebraska Ordnance Plant (NOP) in Mead, Nebraska. This document was prepared in accordance with the Performance Work Statement for the project under Task 3.

Should you have any questions or comments about this document, please contact me at 913-378-2318.

Sincerely,

Lisa

Lisa Tholl
HGL Project Manager

Enclosures

6340 Glenwood, Suite 200, Building #7, Overland Park, KS 66202
Phone: (913) 317-8860 Fax: (913) 317-8868
www.hgl.com

FINAL
QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014

WATER SUPPLY WELL PROGRAM SAMPLING EVENT

FORMER NEBRASKA ORDNANCE PLANT
MEAD, NEBRASKA

U.S. Army Corps of Engineers
Kansas City District

Contract W912DQ-13-D-3000
Task Order 0002

August 2014

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FINAL
QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014
WATER SUPPLY WELL PROGRAM SAMPLING EVENT
FORMER NEBRASKA ORDNANCE PLANT, MEAD, NEBRASKA

1.0 INTRODUCTION

Water supply well (WSW) sampling was conducted between June 26 and June 30, 2014, at the former Nebraska Ordnance Plant, Mead, Nebraska. All sampling activities were performed in accordance with the *Site-Wide Work Plan, Support Services, Operable Unit No. 2 (Groundwater), Former Nebraska Ordnance Plant, Mead, Nebraska* (USACE, 2014). This report presents a summary of the chemical data quality review for the Second Quarter 2014 WSW sampling event.

GEL Laboratories, LLC (GEL) of Charleston, South Carolina, analyzed the samples for one or more of the following constituents:

- Selected volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Drinking Water Method 524.2,
- Selected explosives by EPA SW846 Method 8330B, and/or
- Total suspended solids (TSS) by Method SM2540D.

Table 1.1 presents a complete list of the WSW where samples were collected, the corresponding sample identification (ID) numbers, and the requested analyses for the Second Quarter 2014 sampling event.

The chain of custody records are provided in Appendix A and field notes are provided in Appendix B. Appendix C presents an explanation of data validation qualifiers and drinking water standards. Appendix D contains a CD with data validation reports and all analytical data for the Second Quarter 2014 WSW sampling event.

2.0 SAMPLING ACTIVITIES

The field sampling team collected samples for chemical analyses from four locations during the Second Quarter 2014 WSW sampling event. Samples were collected from WSW locations WSW-97, WSW-114, WSW-52C (collected after the treatment unit), and WSW-52C-B (collected before the treatment unit), which were listed on the sampling schedule, but were not collected as planned during the First Quarter 2014 WSW sampling event. The team also collected one field duplicate sample, one VOC matrix spike (MS)/matrix spike duplicate (MSD) sample pair, one explosives MS/MSD sample pair, and two trip blanks.

Table 2.1 summarizes the following information listed for the Second Quarter 2014 WSW sampling event:

- Field sample IDs;
- MS/MSD sample information;
- Quality control (QC) split (field duplicate) sample information;
- Dates of sample collection and sample receipt by the laboratory;
- Laboratory sample IDs;
- Laboratory sample delivery group (SDG) numbers; and
- Requested analyses.

3.0 DATA QUALITY EVALUATION PROCEDURES

The following subsections present results of the data quality evaluation. All elements in this evaluation were performed in accordance with the Data Management and Validation protocols provided as Attachment 1 of the Quality Assurance Project Plan (QAPP), provided in the Site-Wide Work Plan (USACE, 2014). Qualifiers were assigned based on laboratory QC criteria. Data quality evaluation results and qualifications are presented in Table 3.1 according to field sample ID. No QC outliers were noted.

3.1 SAMPLE RECEIPT AT THE LABORATORY

The laboratories received all samples in good condition and within the recommended temperature range of 4 ± 2 °C. Samples were properly preserved in the field, and the laboratory VOC run logs indicated that the samples were preserved to a pH less than 2.

3.2 HOLDING TIMES

GEL performed extractions and analyses of all samples within required method-specific holding times.

3.3 TUNING AND CALIBRATION

The laboratory did not report any deviations for the calibration and tuning of pertinent instrumentation in the case narratives. The evaluation of the calibration summary forms indicated that all project criteria were met.

3.4 LABORATORY METHOD BLANKS

A laboratory method blank is an analyte-free matrix that is carried through the entire preparation and analysis sequence for the purpose of identifying potential contamination introduced during preparation and analysis. Method blanks were analyzed for each sample batch for all analyses.

Detections are qualified as nondetect (U) if the concentration in the sample is less than 5 times the concentration in the associated blank. For common laboratory contaminants, detections are qualified U if the concentration in the sample is less than 10 times the concentration in the associated blank. Sample results that are non-detections or are detections greater than 5 (or 10) times the associated blank result do not require qualification.

There were no detections of target analytes in the laboratory method blanks.

3.5 TRIP BLANKS

A trip blank is an analyte-free matrix that accompanies samples through the sample collection and transportation process to identify potential VOC cross contamination. Detections are qualified U if the concentration in the sample is less than 5 times the concentration in the associated blank (10 times for common laboratory contaminants). Sample results that are non-detections or are detections greater than 5 times the associated blank result do not require qualification.

There were no detections of target analytes in the volatile trip blanks.

3.6 SURROGATES

Surrogates are compounds not normally found in the environment that are added (spiked) into samples prior to extraction (for extractable methods) or prior to analysis (for non-extractable methods). The percent recovery (%R) of each surrogate is used to assess the success of the sample preparation process for an individual sample.

Results for associated analytes in the affected samples are qualified estimated (J for detects and UJ for nondetects) if the surrogate %Rs are below the laboratory QC limits, but greater than 10 percent. Nondetect results are qualified R (rejected) if %Rs are less than 10 percent. Detected results for associated analytes in the affected samples are qualified J if the %Rs are greater than the QC limits; no action is required for nondetect results.

All surrogate %Rs were within the QAPP QC limits.

3.7 LABORATORY CONTROL SAMPLES AND LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) consists of a matrix similar to that of the field sample spiked with known concentrations of analytes. The LCS %R is a measure of the accuracy of the preparation and analytical methods. A laboratory control sample duplicate (LCSD) is a duplicate preparation and analysis of an LCS. The differences between the LCS and LCSD recoveries are used to calculate the relative percent differences (RPD), which is a measure of the precision of the preparation and analytical methods. LCSs were analyzed for each sample batch for all analyses.

Results for the affected analyte in the associated samples are qualified J for detects and UJ for nondetects if the LCS %Rs are below the QAPP limits, but greater than lower marginal exceedance (ME) percent. Nondetects are qualified R if the %Rs are less than ME percent. Also, results for the affected analyte in the associated samples are qualified J for detects if the %Rs are greater than the QC limits. No action is required for nondetects. Additionally, if the RPD exceeds 30 percent, results for the affected analyte in the associated samples are qualified J for detects, and no qualification is required for nondetects.

All LCS %Rs were within the QAPP QC limits.

3.8 MATRIX SPIKES AND MATRIX SPIKE DUPLICATES

MS and MSD samples were analyzed for both VOCs and explosives. A field sample is submitted with triple volume, which is then split into three portions (original, MS, and MSD). Known amounts of analytes are added (spiked) into the MS and MSD portions of the sample before analysis. The analytical results of the two spiked fractions are compared to each other for reproducibility using the RPD. These results are also compared against the results for the un-spiked fraction of the sample to determine %R of the spiked analytes. MS/MSD analyses were performed on the appropriate samples collected as listed on Table 2.1.

Results for the affected analyte in the parent sample are qualified J for detects and UJ for nondetects if the MS/MSD %Rs are below the laboratory QC limits, but greater than 10 percent. Nondetects are qualified R if %Rs are less than 10 percent. The lower limit for rejecting nondetected results is 30 percent for inorganic methods. Also, results for the affected analyte in the parent sample are qualified J for detects if the MS/MSD %Rs are greater than the QC limits. No action is required for nondetects. Additionally, if the RPD exceeds QC limits, results for the affected analyte in the associated parent samples are qualified J for detects and no qualification is required for nondetects.

All %Rs were within laboratory QC limits and all RPDs were less than 30 percent.

3.9 FIELD DUPLICATES

The field sampling team collected one field duplicate pair during the Second Quarter 2014 WSW sampling event. The field duplicate pair is listed below:

- 0114-042014 / 2114-042014 (VOCs and Explosives)

All field duplicate results met the precision criteria.

Note: Analytical results are not qualified based on field duplicate RPDs. Field duplicate results are also considered acceptable when one result is not detected and the other result is detected below the limit of quantitation (LOQ).

3.10 DILUTIONS AND REANALYSES

Qualifiers assigned as a result of calibration range exceedances are not used in the calculation of analytical data completeness percentages if there are acceptable results from diluted sample analyses.

All explosives samples were run at 2x dilution as the GEL Standard Operating Procedure (SOP) required 1:1 v/v dilution with high performance liquid chromatography (HPLC) grade water. Sample 052C-B-042014 was analyzed at 5x dilution to quantify elevated concentrations of trichloroethene (TCE). Only the TCE result was reported from this diluted analysis. All other VOC sample results are reported from undiluted analyses.

3.11 OTHER QC PARAMETERS

All detected explosive results were confirmed on a second column. A column comparison between the detected explosive results was made using explosives identification summary forms. The validator confirmed all reported detections of explosives for both columns and the inter-column RPDs.

No inter-column RPDs exceeded control limits.

3.12 LABORATORY QUALIFIERS

Note that the tables refer only to generic detection limits, however the values reported as detection limits are MDLs for EPA Method 524 and LODs for SW846 Method 8330B and Standard Method 2540D. Analytes detected below the RL (Method 524.2) or the LOQ (Method 8330B and A2540D), but above the MDL for (Method 524.2) or the LOD for (Method 8330 and A2540D) were quantified and results were assigned an estimated (J) qualifier by the laboratory. These qualifiers were carried over by the validator and were not used to determine analytical or project completeness in the Overall Assessment in Section 4.0.

4.0 OVERALL ASSESSMENT

The following subsections present the field completeness, analytical completeness, and project completeness determinations for the Second Quarter 2014 WSW sampling event. An evaluation of field, analytical, and project completeness is presented in Tables 4.1, 4.2, and 4.3.

4.1 FIELD COMPLETENESS

Field completeness for sample collection was assessed by comparing the number of samples properly collected to the number of samples planned for collection. All planned sample locations were collected and the field completeness for all methods was 100 percent. The overall field completeness percentage is 100 percent, which exceeds the field completeness goal of 95 percent. Section 2.0 presents the field sampling activities, including any deviations from planned sampling if applicable. Table 4.1 presents field completeness values for the WSW sampling event.

4.2 ANALYTICAL COMPLETENESS

Analytical completeness was calculated as usable data completeness. Analytical completeness is presented in Table 4.2. The individual method usable data completeness goal is 95 percent, the overall usable data completeness goal is 95 percent.

Usable data includes all data except rejected data points, and does not include analyses for which replacement data points are available. Usable data completeness percentages for the VOCs, explosives, and TSS are 100 percent, as no sample results were rejected. This exceeds the quality data completeness goals of 95 percent for each analytical method. Overall usable data completeness is also 100 percent, which exceeds the overall data quality completeness goal of 95 percent. Table 4.2 presents the analytical data completeness.

4.3 PROJECT COMPLETENESS

Project completeness combines sampling and analytical protocols to assess the expectations of the project as a whole. Project completeness is determined by comparing the percentage of samples/measurements that are determined to be usable to the total number of samples/ measurements planned. Project completeness is calculated using the field completeness and analytical completeness (usable data) completeness percentages. Overall project completeness is 100 percent, which exceeds the project completeness goal of 90 percent. Table 4.3 presents the project completeness percentages.

5.0 CONCLUSIONS

The data are acceptable. No data results were qualified, as presented in Table 3.1. Overall usable data completeness is 100 percent which meets the project goal. The overall field completeness is 100 percent, which meets project goals. The overall project completeness at 100 percent exceeds the project goal of 90 percent. All project goals were met for this sampling event.

6.0 REFERENCES

USACE, 2014. Site-Wide Work Plan, Former Nebraska Ordnance Plant. Mead, Nebraska, Prepared by HGL under Contract W912DQ-13-D-3000, Task Order 0002. April.

TABLES

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Table 1.1
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Water Supply Well Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Surface Water Locations	Sample IDs	Analyses
FIELDQC	TRB-2114-042014	Volatiles
FIELDQC	TRB-297-042014	Volatiles
WSW-114	0114-042014	Explosives, Volatiles
WSW-114	2114-042014	Explosives, Volatiles
WSW-52C	052C-042014	Explosives, Volatiles
WSW-52C-B	052C-B-042014	Explosives, TSS, Volatiles
WSW-97	097-042014	Explosives, Volatiles

Notes:

TSS	A2540D	Total Suspended Solids Dried at 103-105 C
Volatiles	E524.2	Volatile Organic Compounds by Purge & Trap Capillary Column GC/MS
Explosives	SW8330	Nitroaromatics and Nitramines by HPLC

Table 2.1
Sample Collection Summary
Second Quarter 2014 Water Supply Well Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

	Field Samples	MS/MSD Samples	Quality Control Samples	Date Sampled	Date Received by Lab	Lab ID	SDG	Explosives	TSS	Volatiles
Field Samples	097-042014			6/26/2014	6/28/2014	351552004	351552	●		●
	052C-042014			6/26/2014	6/28/2014	351552002	351552	●		●
	052C-B-042014			6/26/2014	6/28/2014	351552003	351552	●	●	●
		0114-042014		6/30/2014	7/1/2014	1203119474	351603	●		
		0114-042014		6/30/2014	7/1/2014	1203119475	351603	●		
		0114-042014		6/30/2014	7/1/2014	1203120640	351603			●
		0114-042014		6/30/2014	7/1/2014	1203120641	351603			●
	0114-042014			6/30/2014	7/1/2014	351603002	351603	●		●
			2114-042014	6/30/2014	7/1/2014	351603003	351603	●		●
Trip Blanks	TRB-297-042014			6/26/2014	6/28/2014	351552001	351552			●
	TRB-2114-042014			6/30/2014	7/1/2014	351603001	351603			●

Notes:

TSS	A2540D	Total Suspended Solids Dried at 103-105 C
Volatiles	E524.2	Volatile Organic Compounds by Purge & Trap Capillary Column GC/MS
Explosives	SW8330	Nitroaromatics and Nitramines by HPLC

● = Requested for the indicated analyses

MS/MSD = Matrix Spike / Matrix Spike Duplicate

ID = Identification

SDG = Sample Delivery Group

Lab = Laboratory

Quallity Control Samples = Field Duplicates

Table 3.1
Data Quality Evaluation Results
Second Quarter 2014 Water Supply Well Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Identification	Date Sampled	SDG	Lab Number	Analysis	Parameter	Units	Lab Result	Data Review Qualifier	Comments	Final Result
none										

Reason for Qualification

%REC	LCS Recovery, MS Recovery
BLK	Ambient Blank, Lab Blank, CCB, CCB - Neg, Trip Blank, Equipment Blank, Field Blank, Material Blank, Lab Blank - Neg
C_RPD	Column RPD
CAL	CCV, CCV RRF, Initial Calibration RRF, Initial Calibration RSD, ICV
IS_Surr	Internal standard, Surrogate recovery outside project limits.
OTHER	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank., Analyte not confirmed on second column, Blank - No Action, Column breakdown (pesticides), CRA/CRI Recovery, Data rejected due to radiological anomolies, Exceeds LinearCalibration Range, False Positive, Field Duplicate RPD, Hydrocarbon pattern does not match standard, Improper preparation/extraction, ICS, No precision available, Prep Hold Time, Raised reporting limit, Serial dilution, Tentatively Identified Compound, Test Hold Time, The analyte was found in an associated blank as well as in the sample.
RPD	Lab Replicate RPD, MS RPD, LCS RPD
SAMP	Cooler temperature greater than 10 degreec C., Cooler temperature greater than 4 degrees C, but less than 10 degreec C., Encore sample holding time exceeded by less than 2X., Encore sample holding time exceeded by more than 2X., Holding time exceeded by less than 2X., Holding time exceeded by more than 2X., Receipt Temperature, Sample preservation/collection requirement not met., Sample Receipt Condition
TR	Trace Level Detect

Table 4.1
Field Completeness
Second Quarter 2014 Water Supply Well Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Analysis	Number of Samples Planned	Number of Samples Collected	Field Completeness
Explosives	5	5	100%
TSS	1	1	100%
Volatiles	5	5	100%
Totals =	11	11	100%
Goal =			95%

Notes:

Number of Samples Planned includes field samples and field duplicate samples.

Table 4.2
Analytical Completeness
Second Quarter 2014 Water Supply Well Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Analysis	Total Number of Parameters	Usable Data	Usable Data Completeness	Usable Data Completeness Goals
Explosives (Analyte Count - 6)	30	30	100%	95%
TSS (Analyte Count - 1)	1	1	100%	95%
Volatiles (Analyte Count - 6)	30	30	100%	95%
Totals =	61	61	100%	95%

Notes:

Total number of parameters includes field samples (includes data points from dilutions and/or reanalyses to be used in place of original data) and field duplicates (does not include field blanks or trip blanks).

Usable data is defined as all non-rejected data.

Table 4.3
Project Completeness
Second Quarter 2014 Water Supply Well Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field	Analytical	Project Completeness
100%	100%	100%
Project Completeness Goal =		90%

Notes:

Analytical Completeness is the percentage of usable data (i.e. quality data completeness).

Project Completeness combines sampling and analytical protocols to assess the expectations of the project as a whole. Project completeness is determined by comparing the percentage of samples / measurements that are determined to be usable to the total number of samples / measurements planned.

APPENDIX A

CHAIN OF CUSTODY RECORDS

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GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	351552 Second Qtr 2014	**Work Order Due Date:**	21-JUL-14	**Collector:**	C
SDG:	351552	**Package Due Date:**	17-JUL-14	**Prelogin #:**	20140618304
Project Manager:	Joanne Harley	**EDD Due Date:**	21-JUL-14	**Project ID:**	1333977
Project Name:	HGLG00004			**SDG Status:**	Closed
	Project #K10002, Mead (K10G)			**Logged By:**	PAD
Purchase Order:					
Package Level:	LEVEL4				
EDD Name:	ERPIMS_ITSI_2_HGLG	**Days to Process:**	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1	F	351552001	TRB-297-042014		26-JUN-14 09:45	28-JUN-14 09:10	WATER	062614	3			
2		351552002	052C-042014		26-JUN-14 10:30	28-JUN-14 09:10	DRINKING WATER (POTABLE)	062614	5			
3		351552003	052C-B-042014		26-JUN-14 10:45	28-JUN-14 09:10	DRINKING WATER (POTABLE)	062614	6			
2		351552004	097-042014		26-JUN-14 09:45	28-JUN-14 09:10	DRINKING WATER (POTABLE)	062614	5			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	SM 2540D Total Suspended Liq	SW846 8330B Explosives by LCMSMS	EPA 524.2 Safe Drinking Water
		G-Chem Path 1	LCMSMS Explosives Path 2 250ml vol	Volatiles Path 1
351552001	TRB-297-042014			N
351552002	052C-042014		N	N
351552003	052C-B-042014	N	N	N
351552004	097-042014		N	N

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 351552 **Client SDG:** 351552

GEL ID:	**351552001**	**351552002**	**351552003**	**351552004**
Client Sample ID:	TRB-297-042014	052C-042014	052C-B-042014	097-042014
Client Matrix	WQ	WP	WP	WP
Cooler Seal Undisturbed	Y	Y	Y	Y
Project Number	FNOP01	FNOP01	FNOP01	FNOP01
Temperature (C)	2	2	2	2

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 351552 **Report Date: 30 JUN 2014**

Product: BALSSSM_L **Workdef ID:** 1335017 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SM 2540D Total Suspended Liq

Method: SM 2540D **Path:** Standard
Product Reference:
Samples: 003 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Total Suspended Solids		mg/L	REG	Y	Y	No

Product: LCMX30B_L **Workdef ID:** 1337038 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SW846 8330B Explosives by LCMSMS

Method: SW846 3535A/8330B Low Level **Path:** HGL specific
Product Reference: 250ml vol
Samples: 002, 003, 004 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
99-35-4	1,3,5-Trinitrobenzene		ug/L	REG	Y	Y	No
54247-05-1	1,3-Dinitrobenzene-d4		ug/L	IS	Y	Y	
118-96-7	2,4,6-Trinitrotoluene		ug/L	REG	Y	Y	
121-14-2	2,4-Dinitrotoluene		ug/L	REG	Y	Y	
93951-90-7	2,6-Dinitrotoluene-d3		ug/L	IS	Y	Y	
35572-78-2	2-Amino-4,6-dinitrotoluene		ug/L	REG	Y	Y	
610-39-9	3,4-Dinitrotoluene		ug/L	SURR	Y	Y	
19406-51-0	4-Amino-2,6-dinitrotoluene		ug/L	REG	Y	Y	
121-82-4	RDX		ug/L	REG	Y	Y	

Product: VOA524_L **Workdef ID:** 1335016 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
EPA 524.2 Safe Drinking Water

Method: EPA 524.2 **Path:** Standard
Product Reference:
Samples: 001, 002, 003, 004 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	Yes
78-87-5	1,2-Dichloropropane		ug/L	REG	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
75-09-2	Methylene chloride		ug/L	REG	Y	Y	

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	
156-59-2	cis-1,2-Dichloroethylene		ug/L	REG	Y	Y	
156-60-5	trans-1,2-Dichloroethylene		ug/L	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Letters in client IDs should be all in CAPS- EFF not Eff.	Y	
Login Reminder?	Y	Enter sub-category on wo screen: Monitoring Well, Water Supply Wells, or O&M Monitoring
PLEASE CHECK TAT!	Y	Events which contain O&M are X015. Events which contain quarterly are X010. Others default to X015.
Sample Description?	Y	Enter Event from COC in sample description. EDD requires info to load.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 062614

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment: 351552

Code	Matrix
WP	DRINKING WATER
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C
2	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace, HCL; 4 Degrees C

Analytical Test Method

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	A2540D - TSS	SW8330 - Explosives: 6 Compounds	E524.2 - VOC DW	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
						1	1	2					
1	TRB-297-042014	WQ	6/26/2014	0945				X	FIELDQC	TB1	0.00	0.00	
2	052C-042014	WP	6/26/2014	1030	TDH		X	X	WSW-52C	N1	0.00	0.00	
3	052C-B-042014	WP	6/26/2014	1045	TDH	X	X	X	WSW-52C-B	N1	0.00	0.00	
4	097-042014	WP	6/26/2014	0945	TDH		X	X	WSW-97	N1	0.00	0.00	
Cooler # 1		**Turnaround Time:**											

Relinquished by: *(Signature)*	**Date**	**Time**
Toby D. King	6-27-14	1500

Received by: *(Signature)*	**Date**	**Time**
P. Dent	6/28/14	09:10

Shipping Date / Carrier / Airbill Number

Fed-ex 7704 4349 5423

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: HGLG	**SDG/AR/COC/Work Order:** 351552
Received By: P. Nient	**Date Received:** 6/28/14

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM
Classified Radioactive II or III by RSO?		X	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		X	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		X	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	X			Preservation Method: Ice bags Blue ice Dry ice None Other (describe) 2C *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): 130465966
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	X			Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	X			
13	COC form is properly signed in relinquished/received sections?	X			
14	Carrier and tracking number.	X			Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 7704 4349 5423

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JNutt Date 6/30/14 Page 1 of 1

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	351603 Second Qtr 2014	**Work Order Due Date:**	22-JUL-14	**Collector:**	C
SDG:	351603	**Package Due Date:**	19-JUL-14	**Prelogin #:**	20140618304
Project Manager:	Joanne Harley	**EDD Due Date:**	21-JUL-14	**Project ID:**	1333977
Project Name:	HGLG00004			**SDG Status:**	Closed
	Project #K10002, Mead (K10G)			**Logged By:**	JOH1
Purchase Order:					
Package Level:	LEVEL4				
EDD Name:	ERPIMS_ITSI_2_HGLG	**Days to Process:**	15		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1	F	351603001	TRB-2114-042014		30-JUN-14 10:00	01-JUL-14 09:10	DRINKING WATER (POTABLE)	063014	3			
2	L	351603002	0114-042014		30-JUN-14 10:00	01-JUL-14 09:10	WATER	063014	15			
2		351603003	2114-042014		30-JUN-14 10:00	01-JUL-14 09:10	WATER	063014	5			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	SW846 8330B Explosives by LCMSMS LCMSMS Explosives 250ml vol Path 2	EPA 524.2 Safe Drinking Water Volatiles Path 1
351603001	TRB-2114-042014		N
351603002	0114-042014	N	N
351603003	2114-042014	N	N

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 351603 **Client SDG:** 351603

GEL ID:	**351603001**	**351603002**	**351603003**
Client Sample ID:	TRB-2114-042014	0114-042014	2114-042014
Client Matrix	WQ	WP	WP
Project Number	FNOP01	FNOP01	FNOP01
Temperature (C)	4	4	4

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 351603 **Report Date: 02 JUL 2014**

Product: LCMX30B_L **Workdef ID:** 1337038 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SW846 8330B Explosives by LCMSMS

Method: SW846 3535A/8330B Low Level **Path:** HGL specific
Product Reference: 250ml vol
Samples: 002, 003 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
99-35-4	1,3,5-Trinitrobenzene		ug/L	REG	Y	Y	No
54247-05-1	1,3-Dinitrobenzene-d4		ug/L	IS	Y	Y	
118-96-7	2,4,6-Trinitrotoluene		ug/L	REG	Y	Y	
121-14-2	2,4-Dinitrotoluene		ug/L	REG	Y	Y	
93951-90-7	2,6-Dinitrotoluene-d3		ug/L	IS	Y	Y	
35572-78-2	2-Amino-4,6-dinitrotoluene		ug/L	REG	Y	Y	
610-39-9	3,4-Dinitrotoluene		ug/L	SURR	Y	Y	
19406-51-0	4-Amino-2,6-dinitrotoluene		ug/L	REG	Y	Y	
121-82-4	RDX		ug/L	REG	Y	Y	

Product: VOA524_L **Workdef ID:** 1335016 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
EPA 524.2 Safe Drinking Water

Method: EPA 524.2 **Path:** Standard
Product Reference:
Samples: 001, 002, 003 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	Yes
78-87-5	1,2-Dichloropropane		ug/L	REG	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
75-09-2	Methylene chloride		ug/L	REG	Y	Y	
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	
156-59-2	cis-1,2-Dichloroethylene		ug/L	REG	Y	Y	
156-60-5	trans-1,2-Dichloroethylene		ug/L	REG	Y	Y	

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Login Requirements:

Requirement	Include?	Comments
Letters in client IDs should be all in CAPS- EFF not Eff.	Y	
Login Reminder?	Y	Enter sub-category on wo screen: Monitoring Well, Water Supply Wells, or O&M Monitoring
PLEASE CHECK TAT!	Y	Events which contain O&M are X015. Events which contain quarterly are X010. Others default to X015.
Sample Description?	Y	Enter Event from COC in sample description. EDD requires info to load.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 1, ltholl@hgl.com

COC # 063014

HGL HydroGeoLogic, Inc — Accurate. Innovative. Sustainable.

351603

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment:

Analytical Test Method: SW8330 - Explosives: 6 Compounds; E524.2 - VOC DW

Code	Matrix
WP	DRINKING WATER
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C
2	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace, HCL; 4 Degrees C

Event: Second Quarter 2014

	Sample ID	Matrix	Date	Time	Samp Init.	1	2	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
1	TRB-2114-042014	WQ	6/30/2014	1000			X	FIELDQC	TB1	0.00	0.00	
2	0114-042014	WP	6/30/2014	1000	TDH	X	X	WSW-114	N1	0.00	0.00	
3	0114-042014 MS	WP	6/30/2014	1000	TDH	X	X	WSW-114	MS1	0.00	0.00	
4	0114-042014 MSD	WP	6/30/2014	1000	TDH	X	X	WSW-114	SD1	0.00	0.00	
5	2114-042014	WP	6/30/2014	1000	TDH	X	X	WSW-114	FD1	0.00	0.00	

Cooler # 1 — **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
Toby D. Hill	6-30-14	1600

Received by: *(Signature)*	Date	Time
Chris Swartz	7-1-14	9:10

Shipping Date / Carrier / Airbill Number

Fed-ex 7704 6036 3038

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: HGLG	**SDG/AR/COC/Work Order:** 351603
Received By: C. Zurcher	**Date Received:** 070114

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts):
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels? 0cpm
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Ice bags Blue ice Dry ice None Other (describe) 4 *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 130462966 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	✓			Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			
14	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 7704 6036 3038

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials TK Date 070114 Page 1 of 1

APPENDIX B

FIELD FORMS

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2nd OTR WSW SE 2014

Mcad FNOP / K10002 / US HGIS 6-26-14 11

Toby A Hinz (HGL)

0945 WSW-97

097-042014 3VOC'S / 2EXP'S

Lynn Grant / 413 Eric lane

1030 - 1045 WSW-52C / Vineyard

052C-042014 052C-B-042014

6 VOC'S / 4 EXP'S / 1 TSS

PHil Crews

1115 WSW-114 is still off

Jim will turn on this evening

2nd QTR WSW 4L

118 Mead PNOP / K10002 / US ACE
Toby O. Hisz (HGL)
Cloudy 85°F Hot/Humid.
0-wind

1600 WSW-114
Jim Walters
0114-042014 / 2114-042014
0114-042014 MS / 0114-042014 MSD
12 va's / 524.2 8 Exp's / 83
WSW Sampling Complete for Qu

APPENDIX C

REFERENCE SHEET
DATA VALIDATION QUALIFIERS
DRINKING WATER STANDARDS

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DATA VALIDATION QUALIFIERS AND DRINKING WATER STANDARDS REFERENCE SHEET
FORMER NEBRASKA ORDNANCE PLANT, MEAD, NEBRASKA

Any qualifiers (i.e. U, J, or R) listed after a result are assigned during the data validation process. Data validation is a procedure which involves the review of quality control data provided by the laboratory. This review is followed by the assignment of data qualifiers (if necessary) which indicate the reliability of a result to the reader. Data validation is performed by a chemist employed outside of the laboratory or associated government installations to ensure accuracy in data reporting. A description of qualifiers is provided below.

No qualifier

- If a result has no assigned qualifier, the contaminant was detected, and the reader can be confident that the concentration is exact.

"U"

- A result followed by a "U" qualifier means that the contaminant was undetected, or not detected by the instrument.

"UJ"

- A result followed by a "UJ" qualifier means that the contaminant was not detected, but the associated detection level is not certain (estimated). For example, if a value is followed by a "UJ", the contaminant was not detected, but the associated detection level is in question. The detection level is in question because one or more of the laboratory quality control indicators do not meet acceptance criteria. The amount that the indicator fell outside of the criteria may be used as a rough estimate of how much the actual detection level differs from the stated one. Typically, this is a 10-30 percent difference.

"J"

- A result followed by only a "J" qualifier means that the contaminant was detected, but there is some question that the stated concentration is exact. For example, if a result is "0.5 J", the contaminant was detected, but there is some question that the concentration is exactly 0.5. A "J" qualifier may be applied for two reasons: (1) the contaminant was detected below the reporting limit; or (2) the contaminant was detected, but one or more quality control indicators did not meet acceptance criteria. The reporting limit is equal to the concentration of the lowest standard used by the laboratory to calibrate the instrument. The reporting limit is the minimum concentration that can be stated with complete confidence.

"R"

- A result followed by an "R" qualifier indicates that the result (detection or non-detection) is rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. An "R" qualifier may be applied if, either the contaminant was detected, but there is strong doubt that the concentration is exact, or the contaminant was not detected, but there is strong doubt that the associated detection level is accurate. Example 1 (not detected), the contaminant was not detected, but the associated detection level is in strong doubt. The detection level is in doubt because results are unacceptable for a quality control indicator. In this case, the detection level cannot be estimated. Example 2 (detected), if a result is "0.5 R", the contaminant was detected, but there is strong doubt that the concentration is exactly 0.5. The concentration is in doubt because results are unacceptable for a quality control indicator. In this case, the detected concentration cannot be estimated. The "R" qualified results are not to be used for any decision making purposes, and are not reported.

"MCL"

- The MCL is the highest concentration of a contaminant that is allowed in drinking water. MCLs are enforceable Federal standards.

"HA"

- HA provide estimates of acceptable drinking water concentrations for a chemical substance based on health effects information. HA are not enforceable Federal standards, but serve as a technical guidance to assist Federal, State, and local officials.

APPENDIX D

ANALYTICAL RESULTS ON CD
SUMMARY FORMS AND RAW DATA

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APPENDIX E

QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014 OPERATION AND MAINTENANCE SAMPLING EVENTS,
FORMER NEBRASKA ORDNANCE PLANT
(ON CD)

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HGL
HydroGeoLogic, Inc
Exceeding Expectations

Kansas City Operations

July 25, 2014

U.S. Army Corps of Engineers
Attn: Jacqueline Frazier
601 E. 12th Street
Kansas City, MO 64106

RE: Transmittal of Final Quality Control Summary Report
Second Quarter 2014 Operations and Maintenance Sampling Events
Former Nebraska Ordnance Plant, Mead, Nebraska
Contract No. W912DQ-13-D-3000, Task Order No. 0002

Dear Ms. Frazier:

HydroGeoLogic, Inc. (HGL) is pleased to submit an electronic copy (via email) of the Final Quality Control Summary Report for the Second Quarter 2014 Operations and Maintenance Sampling Events at the Former Nebraska Ordnance Plant (NOP) in Mead, Nebraska. This document was prepared in accordance with the Performance Work Statement for the project under Task 2.

Should you have any questions or comments about this document, please contact me at 913-378-2318.

Sincerely,

Lisa Tholl
HGL Project Manager

Enclosures

6340 Glenwood, Suite 200, Building #7, Overland Park, KS 66202
Phone: (913) 317-8860 Fax: (913) 317-8868
www.hgl.com

FINAL
QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014

OPERATIONS AND MAINTENANCE
PROGRAM SAMPLING EVENT

FORMER NEBRASKA ORDNANCE PLANT
MEAD, NEBRASKA

U.S. Army Corps of Engineers
Kansas City District

Contract W912DQ-13-D-3000
Task Order 0002

July 2014

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FINAL
QUALITY CONTROL SUMMARY REPORT
SECOND QUARTER 2014
OPERATIONS AND MAINTENANCE PROGRAM SAMPLING EVENT
FORMER NEBRASKA ORDNANCE PLANT, MEAD, NEBRASKA

1.0 INTRODUCTION

As part of the Operation and Maintenance (O&M) program, sampling was conducted at the following systems at the former Nebraska Ordnance Plant, near Mead, Nebraska:

- Main Groundwater Treatment Plant (GTP),
- Load Line (LL) 1 GTP,
- LL4 GTP,
- Advanced Oxidation Process (AOP) GTP,
- AOP Ultraviolet (UV) treatment systems,
- Groundwater Circulation Well (GCW)-01, and
- Associated extraction wells (EWs) and focused extraction wells (FEWs).

Sampling activities were performed in accordance with the *Site-Wide Work Plan* (USACE, 2014). This report presents a summary of the chemical data quality review for the Second Quarter 2014 O&M sampling event.

GEL Laboratories, LLC (GEL) of Charleston, South Carolina, analyzed the samples for one or more of the following constituents:

- Volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 624;
- Volatiles by EPA SW846 Method 8260B;
- Volatiles in air by EPA Compendium Method Toxic Organic (TO)-15;
- Explosives by EPA SW846 Method 8330B;
- Total Organic Carbon (TOC) by EPA SW846 Method 9060A; and
- Total Suspended Solids (TSS) by EPA SW846 Method 2540D.

Table 1.1 presents a complete list of the O&M locations where samples were collected, the corresponding sample identification (ID) numbers, and the requested analyses for the Second Quarter 2014 sampling event.

The chain of custody records and field notes are provided in Appendix A. Appendix B presents an explanation of data validation qualifiers and drinking water standards. Appendix C contains a CD with all analytical data.

2.0 SAMPLING ACTIVITIES

The field sampling team collected the following field samples during the Second Quarter 2014 O&M sampling events:

- Water samples from each of the following EWs and FEW: EW-1R, EW-12, FEW-15, and EW-17.
- Water samples from the influent and effluent of each of the EWs and FEWs with AOP UV treatment systems during each month of this quarter: EW-4, EW-7, EW-9, FEW-11, and FEW-14.
- Water samples from each of the following granular activated carbon (GAC) units in April 2014: 310, 330, and 350.
- Water samples from the influent and effluent of the Main GTP in April 2014.
- Water samples from the influent and effluent of GCW-01 in May 2014.
- Water samples from the influent and effluent of the LL1 GTP during each month of this quarter.
- One effluent air sample from the LL1 GTP in May 2014.
- Water samples from the influent and effluent of the LL4 GTP during each month of this quarter.
- One effluent air sample from the LL4 GTP in May 2014.
- Water samples from the effluent of the AOP GTP. The associated influent sample from the AOP GTP was collected from the influent and effluent of the FEW-11 AOP UV treatment system.
- Water samples from the effluent of Wahoo Creek; originally on May 8, 2014, and again on May 27, 2014, to verify results.
- Water samples collected from the effluent of Clear Creek in May 2014.

A trip blank was included in each shipment that contained field samples scheduled for analysis of VOCs. No field quality control (QC) samples (field duplicate and matrix spike/matrix spike duplicate [MS/MSD]) were collected for the O&M samples.

Table 2.1 summarizes the following information listed for the Second Quarter 2014 O&M sampling event:

- Field sample IDs;
- Dates of sample collection;
- Laboratory sample IDs;
- Laboratory sample delivery group (SDG) numbers; and

- Requested analyses.

3.0 DATA QUALITY EVALUATION PROCEDURES

The following subsections present the results of the data quality evaluation. The results of samples collected as part of the O&M sampling events are not required to undergo a manual data validation. The electronic data deliverables (EDDs), once received from the laboratory, were run through the automated data review (ADR) program setup for the project database by Synectics with the exception of the samples from Wahoo Creek (original sample event) and Clear Creek. An expanded analyte list, not included in the Quality Assurance Project Plan (QAPP), was requested for both of these samples; therefore, the EDDs could not be loaded into the Synectics database. As this expanded analysis was a one-time event, it was determined that a QAPP update was not warranted and that the data for these two samples would be included in the Synectics library. The ADR program applies qualifiers in accordance with the Data Management and Validation protocols provided as Attachment 1 of the QAPP, provided in the Site-Wide Work Plan (USACE, 2014). Sample logins and IDs and the chain of custody forms were manually reviewed for accuracy and consistency. ADR data quality evaluation results and qualifications are presented in Table 3.1 by field sample ID. QC outliers and associated limits are presented in Table 3.2.

3.1 SAMPLE RECEIPT AT THE LABORATORY

The laboratory received all samples in good condition, with proper preservatives, and within the recommended temperature range of 4 ± 2 °C.

3.2 HOLDING TIMES

The Synectics ADR process noted no issues with sample holding times.

3.3 TUNING AND CALIBRATION

The laboratory did not report any deviations for the calibration and tuning of instrumentations in the case narratives. Calibration data was not evaluated by the Synectics ADR program.

3.4 LABORATORY BLANKS

A laboratory method blank is an analyte-free matrix that is carried through the entire preparation and analysis sequence for the purpose of identifying potential contamination introduced during preparation and analysis. Method blanks were analyzed for each sample batch for all analyses.

Detections were qualified as nondetect (U) if the concentration in the sample was less than 5 times the concentration in the associated blank. For common laboratory contaminants, results were qualified as described above if the concentration in the sample was less than 10 times the concentration in the associated blank. Sample results that were either nondetect (U), or greater than 5 or 10 x the blank result did not require qualification.
The Synectics ADR process noted no issues with laboratory blanks.

3.5 TRIP BLANKS

A trip blank is an analyte-free matrix that accompanies samples through the sample collection and transportation process to identify potential VOC cross contamination. Detections are qualified U if the concentration in the sample is less than 5 times the concentration in the associated blank (10 times for common laboratory contaminants). Sample results that are non-detections or are detections greater than 5 times the associated blank result do not require qualification.

The Synectics ADR process noted no issues with trip blanks.

3.6 SURROGATES

Surrogates are compounds not normally found in the environment that are added (spiked) into samples prior to extraction (for extractable methods) or prior to analysis (for non-extractable methods). The percent recovery (%R) of each surrogate is used to assess the success of the sample preparation process for an individual sample.

The Synectics ADR process noted no issues with surrogate recoveries.

3.7 LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE

A laboratory control sample (LCS) consists of a matrix similar to that of the field sample spiked with known concentrations of analytes. The LCS %R is a measure of the accuracy of the preparation and analytical methods. A laboratory control sample duplicate (LCSD) is a duplicate preparation and analysis of an LCS. The differences between the LCS and LCSD recoveries are used to calculate the relative percent differences (RPD), which is a measure of the precision of the preparation and analytical methods. LCSs were analyzed for each sample batch for all analyses.

The Synectics ADR process noted no issues with LCS recoveries except for 1,1-dichloroethene from SDG 345686 where the recovery was 71% which is below the lower control limit of 74%. In air sample K10002-0514-LL4-EFF, the recovery for 1,2-dichloropropane was 124%, which is slightly above the upper control limit of 123%. No qualifiers were added based on LCS recoveries.

3.8 MATRIX SPIKE / MATRIX SPIKE DUPLICATE ANALYSES

MS and MSD samples are analyzed for organic and inorganic analyses. A field sample is split into three portions (original, MS, and MSD) and known amounts of analytes are added (spiked) into the MS and MSD portions of the sample. The analytical results of these two portions are compared to each other for reproducibility using the RPD. These results are also compared against the un-spiked portion of the sample for percent recovery (%R) of the spiked analytes. MS/MSD samples were analyzed for VOCs, explosives, nitrate, and metals.

While no extra volume was collected in the field for MS/MSD analyses, the laboratory has designated some samples within some SDGs for spike analysis to meet internal laboratory QC compliance. Although not requested, the MS/MSD results were provided and were reviewed by ADR. ADR noted no issues.

3.9 LABORATORY DUPLICATES

Laboratory duplicates are aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently. They are used for samples where no spiking solutions are available to indicate precision associated with laboratory procedures. For sample K10002_0514-EW-11_UVEFF-005, the sample result was a low level detection (below the RL), and the duplicate result was nondetect. The RPD was calculated based on a nondetect concentration quantified as "0," resulting in the high RPD. The Synectics ADR process qualified the TSS result J as a result of the lab duplicate RPD.

3.10 DILUTIONS AND REANALYSES

Qualifiers assigned as a result of calibration range exceedances are not used in the calculation of analytical data completeness percentages if there are acceptable results from diluted sample analyses.

All explosives samples were run at 2x dilution as the GEL Standard Operating Procedure (SOP) required 1:1 v/v dilution with high performance liquid chromatography (HPLC) grade water. TCE results were reported at dilution (2x to 25x) for some samples, all results for sample K10002-0414-FEW-11-UVINF-004 were reported at 25x dilution, all other VOC sample results are reported from undiluted analyses.

Both air samples were analyzed at a dilution because the concentrations of TCE were above the calibration range. Only the dilution analyses were reported for the air samples. No qualifiers were assigned because acceptable results from diluted sample analyses were provided.

3.11 OTHER QUALITY CONTROL PARAMETERS

All detected explosive results were confirmed on a second column. A column comparison between the detected explosive results was made using explosive identification summary forms. The automated review program verified that the laboratory performed confirmation for all reported explosive detections and reported the inter-column RPDs. It should be noted that detection limits for methods 8260B, TO-15, and 8330B are limit of detection (LOD) values, and that detections limits for method 624 are method detection limit (MDL) values.

ADR noted no inter-column RPD issues.

3.12 LABORATORY QUALIFIERS

Analytes detected below the limit of quantitation (LOQ), but above the associated detection limit were quantified and results were assigned an estimated (J) qualifier by the laboratory.

These qualifiers were carried over by the automated review program and were not used to determine analytical or project completeness in the Overall Assessment in Section 4.0.

4.0 OVERALL ASSESSMENT

The following subsections present the field completeness, analytical completeness, and project completeness determinations for the Second Quarter 2014 O&M sampling event. An evaluation of field, analytical, and project completeness is presented in Tables 4.1, 4.2, and 4.3.

4.1 FIELD COMPLETENESS

Field completeness is assessed by comparing the number of samples properly collected to the number of samples planned for collection. Field completeness is presented in Table 4.1 for the O&M sampling events.

Field completeness for the Second Quarter 2014 O&M sampling events was 99.4 percent for each analysis, which exceeds the field completeness goal of 95 percent.

4.2 ANALYTICAL COMPLETENESS

Analytical completeness was calculated as usable data completeness. Analytical completeness is presented in Table 4.2. The individual method usable data completeness goal is 95 percent and the overall usable data completeness goal is 95 percent.

Usable data points include all non-rejected data. Rejected data points with replacement data do not count against the usable data completeness. No data were rejected for the Second Quarter 2014 O&M sampling event. The usable data completeness percentage for VOCs by method 624, Volatiles by method 8260B, Volatiles in air by method TO-15, and explosives by method 8330B is 100 percent and overall usable data completeness is 100 percent for the Second Quarter 2014 O&M sampling events.

4.3 PROJECT COMPLETENESS

Project completeness combines sampling and analytical protocols to assess the expectations of the project as a whole. Project completeness is determined by comparing the percentage of samples/measurements that are determined to be usable to the total number of samples/measurements planned. Project completeness is calculated using the field completeness and analytical completeness (usable data) completeness percentages.

The O&M project completeness percentage is 99.7 percent, which exceeds the project completeness goal of 90 percent. Table 4.3 presents project completeness values.

5.0 CONCLUSIONS

No data points were qualified as rejected (R). Data are valid for use, as qualified. Overall

field completeness is 100 percent. Overall usable data completeness is 100 percent which is above the usable data completeness goal of 95 percent. Project completeness is 100% which exceeds the project completeness goal of 90 percent.

ADR qualified two VOC results due to analysis outside of holding times and one TSS sample with a lab replicate that did not meet the RPD limit. The qualifiers assigned as a result of these issues were not used to determine analytical completeness or project completeness and have no impact on data quality.

6.0 REFERENCES

U.S. Army Corps of Engineers, 2014. Site-Wide Work Plan, Former Nebraska Ordnance Plant. Mead, Nebraska. Prepared by HGL under Contract W912DQ-13-D-3000, Task Order 0002. April.

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TABLES

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Table 1.1
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Locations	Sample Identification	Analyses
AOP-EFF	K10002-0414-AOP-EFF2-158	VOCs
AOP-EFF	K10002-0514-AOP-EFF2-159	Volatiles
AOP-EFF	K10002-0614-AOP-EFF2-078	Volatiles
EW-1R	K10002-0514-EW-1R-049	Explosives, Volatiles
EW-12	K10002-0414-EW-12-102	Volatiles
EW-12	K10002-0514-EW-12-103	Explosives, Volatiles
EW-12	K10002-0614-EW-12-104	Volatiles
EW-17	K10002-0414-EW-17-102	Volatiles
EW-17	K10002-0514-EW-17-103	Explosives, Volatiles
EW-17	K10002-0614-EW-17-104	Volatiles
EW-1R	K10002-0214-EW-1R-046	Explosives, Volatiles
EW-4_UVEFF	K10002-0414-EW-4_UVEFF-004	Explosives
EW-4_UVEFF	K10002-0514-EW-4_UVEFF-005	Explosives
EW-4_UVEFF	K10002-0614-EW-4_UVEFF-006	Explosives
EW-4_UVINF	K10002-0514-EW-4_UVINF-005	DOC, Explosives, TOC, TSS, Volatiles
EW-7_UVEFF	K10002-0414-EW-7_UVEFF-004	Explosives
EW-7_UVEFF	K10002-0514-EW-7_UVEFF-005	Explosives
EW-7_UVEFF	K10002-0614-EW-7_UVEFF-006	Explosives
EW-7_UVINF	K10002-0514-EW-7_UVINF-005	DOC, Explosives, TOC, TSS, Volatiles
EW-9_UVEFF	K10002-0414-EW-9_UVEFF-004	Explosives
EW-9_UVEFF	K10002-0514-EW-9_UVEFF-005	Explosives
EW-9_UVEFF	K10002-0614-EW-9_UVEFF-006	Explosives
EW-9_UVINF	K10002-0514-EW-9_UVINF-005	DOC, Explosives, TOC, TSS, Volatiles
FEW-11_UVEFF	K10002-0414-FEW-11_UVEFF-004	Explosives
FEW-11_UVEFF	K10002-0514-EW-11_UVEFF-005	DOC, Explosives, TOC, TSS
FEW-11_UVEFF	K10002-0614-FEW-11_UVEFF-078	Explosives
FEW-11_UVINF	K10002-0414-FEW-11_UVINF-004	Explosives
FEW-11_UVINF	K10002-0514-EW-11_UVINF-005	Explosives, Volatiles
FEW-11_UVINF	K10002-0614-FEW-11_UVINF-078	Explosives, Volatiles
FEW-14_UVEFF	K10002-0414-FEW-14_UVEFF-004	Explosives

Table 1.1 (Continued)
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Locations	Sample Identification	Analyses
FEW-14_UVEFF	K10002-0514-EW-14_UVEFF-005	Explosives
FEW-14_UVEFF	K10002-0614-FEW-14_UVEFF-006	Explosives
FEW-14_UVINF	K10002-0514-EW-14_UVINF-005	DOC, Explosives, TOC, TSS, Volatiles
FEW-15	K10002-0514-EW-15-049	Explosives, Volatiles
FIELDQC	TRB-2INF-042014	Volatiles
FIELDQC	TRB-AOP-2EFF2-052014	Volatiles
FIELDQC	TRB-FEW11-UVINF-042014	Volatiles
FIELDQC	TRB-LL1-2INF-EFF	Volatiles
FIELDQC	TRB-LL1-2INF-052014	Volatiles
FIELDQC	TRB-LL1-2EW12-062014	Volatiles
FIELDQC	TRB-LL4-2INF-042014	Volatiles
GCW1-EFF	K10002-0514-GCW-1-EFF	Volatiles
GCW1-INF	K10002-0514-GCW-1-INF	Volatiles
GTP-310	K10002-0414-GTP-310-158	Explosives, Volatiles
GTP-330	K10002-0414-GTP-330-158	Explosives, Volatiles
GTP-350	K10002-0414-GTP-350-158	Explosives, Volatiles
GTP-EFF	K10002-0414-GTP-EFF-158	Explosives, VOCs
GTP-INF	K10002-0414-GTP-INF-158	Explosives, Volatiles
LL1_AIR_EF	K10002-0514-LL1-AIR-EFF	Volatiles-Air
LL1-EFF	K10002-0414-LL1-EFF-102	VOCs
LL1-EFF	K10002-0514-LL1-EFF-103	Explosives, Volatiles
LL1-EFF	K10002-0614-LL1-EFF-104	Volatiles
LL1-INF	K10002-0414-LL1-INF-102	Volatiles
LL1-INF	K10002-0514-LL1-INF-103	DOC, Explosives, TOC, TSS, Volatiles
LL1-INF	K10002-0614-LL1-INF-104	Volatiles
LL4_AIR_EF	K10002-0514-LL4-AIR-EFF	Volatiles-Air
LL4-EFF	K10002-0414-LL4-EFF-048	VOCs
LL4-EFF	K10002-0514-LL4-EFF-049	Explosives, Volatiles
LL4-EFF	K10002-0614-LL4-EFF-050	Volatiles
LL4-INF	K10002-0414-LL4-INF-048	Volatiles
LL4-INF	K10002-0514-LL4-INF-049	DOC, Explosives, TOC, TSS, Volatiles

Table 1.1 (Continued)
Sample Locations, Sample IDs, and Analyses
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Locations	Sample Identification	Analyses
LL4-INF	K10002-0614-LL4-INF-050	Volatiles
CLEAR CREEK	K10002-0514-CC-EFF	VOCs, Explosives
WAHOO CREEK	K10002-0514-WC-EFF	VOCs
WAHOO CREEK	K10002-0514-WC-EFF	Volatiles
WAHOO CREEK	K10002-0614-WC-EFF	Explosives, Volatiles

Notes:
VOCs analysis is by Method E624 Volatile Organics GC/MS.
Volatiles analysis is by Method SW8260B Volatile Organic Compounds by Capillary GC/MS.

Explosives analysis is by SW8330B Nitroaromatics and Nitramines by high performance liquid chromatography.

Volatiles-Air analysis is by Method TO-15 Determination of Volatile Organic Compounds in Air Collected in Specially Prepared Canisters and Analyzed by GC/MS.

TOC analysis is by Method SW9060.
TSS analysis is by Method A2540D Total Suspended Solids Dried at 103-105 C.

AOP = advanced oxidation process
DOC = dissolved organic carbon
EFF = effluent
EW = extraction well
FEW = focused extraction well
GC = gas chromatography
GCW = groundwater circulation well
GTP = groundwater treatment plant
INF = influent
LL = load line
MS = mass spectrometry
QC = quality control
TRB = trip blank
TOC = total organic carbon
TSS = total suspended solids
UV = ultraviolet

Table 2.1
Sample Collection Summary
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	Date Sampled	Laboratory ID	Sample Delivery Group	Explosives	TOC	TSS	VOCs	Volatiles	Volatiles-Air
Field Samples									
K10002-0414-GTP-310-158	4/2/2014	345686011	345686	●				●	
K10002-0414-GTP-330-158	4/2/2014	345686012	345686	●				●	
K10002-0414-GTP-350-158	4/2/2014	345686013	345686	●				●	
K10002-0414-AOP-EFF2-158	4/2/2014	345686009	345686				●		
K10002-0514-AOP-EFF2-159	5/5/2014	348055018	348055					●	
K10002-0514-AOP-EFF2-159	5/27/2014	349466001	349466					●	
K10002-0414-EW-4_UVEFF-004	4/2/2014	345686016	345686	●					
K10002-0514-EW-4_UVEFF-005	5/5/2014	348055010	348055	●					
K10002-0514-EW-4_UVINF-005	5/5/2014	348055011	348055	●	●	●		●	
K10002-0614-EW-4_UVEFF-006	6/3/2014	349930012	349930	●					
K10002-0414-EW-7_UVEFF-004	4/2/2014	345686017	345686	●					
K10002-0514-EW-7_UVEFF-005	5/5/2014	348055012	348055	●					
K10002-0514-EW-7_UVINF-005	5/5/2014	348055013	348055	●	●	●		●	
K10002-0614-EW-7_UVEFF-006	6/3/2014	349930013	349930	●					
K10002-0414-EW-9_UVEFF-004	4/2/2014	345686018	345686	●					
K10002-0514-EW-9_UVEFF-005	5/5/2014	348055014	348055	●					
K10002-0514-EW-9_UVINF-005	5/5/2014	348055015	348055	●	●	●		●	
K10002-0614-EW-9_UVEFF-006	6/3/2014	349930014	349930	●					
K10002-0514-EW-11_UVEFF-005	5/5/2014	348055019	348055	●	●	●			
K10002-0514-EW-11_UVINF-005	5/5/2014	348055020	348055	●				●	
K10002-0414-EW-12-102	4/2/2014	345686004	345686					●	
K10002-0514-EW-12-103	5/5/2014	348055005	348055	●				●	
K10002-0614-EW-12-104	6/3/2014	349930007	349930					●	
K10002-0514-EW-14_UVEFF-005	5/5/2014	348055016	348055	●					
K10002-0514-EW-14_UVINF-005	5/5/2014	348055017	348055	●	●	●		●	
K10002-0514-EW-15-049	5/5/2014	348055002	348055	●				●	
K10002-0414-EW-17-102	4/2/2014	345686005	345686					●	
K10002-0514-EW-17-103	5/5/2014	348055006	348055	●				●	
K10002-0614-EW-17-104	6/3/2014	349930008	349930					●	
K10002-0514-EW-1R-049	5/5/2014	348055001	348055	●				●	

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	Date Sampled	Laboratory ID	Sample Delivery Group	Explosives	TOC	TSS	VOCs	Volatiles	Volatiles-Air
Field Samples (Continued)									
K10002-0414-FEW-11_UVEFF-004	4/2/2014	345686019	345686	●					
K10002-0414-FEW-11_UVINF-004	4/2/2014	345686020	345686	●				●	
K10002-0614-FEW-11_UVEFF-078	6/3/2014	349930003	349930	●					
K10002-0614-FEW-11_UVINF-078	6/3/2014	349930004	349930	●				●	
K10002-0414-FEW-14_UVEFF-004	4/2/2014	345686021	345686	●					
K10002-0614-FEW-14_UVEFF-006	6/3/2014	349930015	349930	●					
K10002-0414-GTP-EFF-158	4/2/2014	345686014	345686	●			●		
K10002-0414-GTP-INF-158	4/2/2014	345686015	345686	●				●	
K10002-0514-GCW-1-EFF	5/5/2014	348055021	348055					●	
K10002-0514-GCW-1-INF	5/5/2014	348055022	348055					●	
K10002-0414-LL1-EFF-102	4/2/2014	345686007	345686				●		
K10002-0514-LL1-AIR-EFF	5/5/2014	1405229-001A	1405229						●
K10002-0514-LL1-EFF-103	5/5/2014	348055009	348055	●				●	
K10002-0614-LL1-EFF-104	6/3/2014	349930010	349930					●	
K10002-0414-LL1-INF-102	4/2/2014	345686008	345686					●	
K10002-0514-LL1-INF-103	5/5/2014	348055008	348055	●	●	●		●	
K10002-0614-LL1-INF-104	6/3/2014	349930011	349930					●	
K10002-0414-LL4-EFF-048	4/2/2014	345686002	345686				●		
K10002-0514-LL4-AIR-EFF	5/5/2014	1405229-002A	1405229						●
K10002-0514-LL4-EFF-049	5/5/2014	348055003	348055	●				●	
K10002-0614-LL4-EFF-050	6/3/2014	349930005	349930					●	
K10002-0414-LL4-INF-048	4/2/2014	345686003	345686					●	
K10002-0514-LL4-INF-049	5/5/2014	348055004	348055	●	●	●		●	
K10002-0614-LL4-INF-050	6/3/2014	349930006	349930					●	
K10002-0514-WC-EFF	5/8/2014	348401002	348401	●			●		
K10002-0514-WC-EFF	5/27/2014	349466003	349466					●	
K10002-0614-WC-EFF	6/3/2014	349930001	349930	●				●	
K10002-0514-CC-EFF	5/14/2014	348725001	348725	●			●		

Table 2.1 (Continued)
Sample Collection Summary
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field Samples	Date Sampled	Laboratory ID	Sample Delivery Group	Explosives	TOC	TSS	VOCs	Volatiles	Volatiles-Air
Trip Blanks									
TRB-2INF-042014	4/2/2014	345686010	345686					●	
TRB-FEW11-UVINF-042014	4/2/2014	345686022	345686					●	
TRB-LL4-2INF-042014	4/2/2014	345686001	345686					●	
TRB-LL1-2INF-EFF	4/2/2014	345686006	345686					●	
TRB-LL1-2INF-052014	5/5/2014	348055007	348055					●	
TRB-WC-052014	5/8/2014	348401001	348401				●		
TRB-CC-052014	5/14/2014	348725002	348725				●		
TRB-AOP-2EFF2-052014	5/27/2014	349466002	349466					●	
TRB-LL1-2EW12-062014	6/3/2014	349930009	349930					●	

Notes:

VOCs analysis is by Method E624 Volatile Organics GC/MS.

Volatiles analysis is by Method SW8260B Volatile Organic Compounds by Capillary GC/MS.

Explosives analysis is by SW8330B Nitroaromatics and Nitramines by high performance liquid chromatography.

Volatiles-Air analysis is by Method TO-15 Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS.

Quality control samples = field duplicates

• = Requested for the indicated analyses

AOP = advanced oxidation process

EFF = effluent

EW = extraction well

FEW = focused extraction well

GC = gas chromatography

GCW = groundwater circulation well

GTP = groundwater treatment plant

ID = identification

INF = influent

LL = load line

MS = mass spectrometry

TOC = total organic carbon

TRB = trip blank

TSS = total suspended solids

UV = ultraviolet

Table 3.1
Data Quality Evaluation Results
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Identification	Date Sampled	SDG	Laboratory Number	Analysis	Parameter	Units	Lab Result	Data Review Qualifier	RPD	TR	Comments	Final Result
K10002-0414-EW-4_UVEFF-004	4/2/2014	345686	345686016	Explosives	4-amino-2,6-dinitrotoluene	µg/L	0.2	J		X	Trace Level Detect	0.20 J
K10002-0414-FEW-11_UVEFF-004	4/2/2014	345686	345686019	Explosives	4-amino-2,6-dinitrotoluene	µg/L	0.37	J		X	Trace Level Detect	0.37 J
K10002-0414-FEW-11_UVEFF-004	4/2/2014	345686	345686019	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	µg/L	0.4	J		X	Trace Level Detect	0.40 J
K10002-0414-FEW-11_UVINF-004	4/2/2014	345686	345686020	Explosives	1,3,5-trinitrobenzene	µg/L	0.31	J		X	Trace Level Detect	0.31 J
K10002-0414-FEW-14_UVEFF-004	4/2/2014	345686	345686021	Explosives	4-amino-2,6-dinitrotoluene	µg/L	0.17	J		X	Trace Level Detect	0.17 J
K10002-0414-FEW-14_UVEFF-004	4/2/2014	345686	345686021	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	µg/L	0.21	J		X	Trace Level Detect	0.21 J
K10002-0414-GTP-310-158	4/2/2014	345686	345686011	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	µg/L	0.19	J		X	Trace Level Detect	0.19 J
K10002-0414-GTP-310-158	4/2/2014	345686	345686011	Volatiles	trichloroethene	µg/L	0.36	J		X	Trace Level Detect	0.36 J
K10002-0414-GTP-330-158	4/2/2014	345686	345686012	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	µg/L	0.25	J		X	Trace Level Detect	0.25 J
K10002-0414-GTP-330-158	4/2/2014	345686	345686012	Volatiles	trichloroethene	µg/L	0.5	J		X	Trace Level Detect	0.50 J
K10002-0414-GTP-350-158	4/2/2014	345686	345686013	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	µg/L	0.23	J		X	Trace Level Detect	0.23 J
K10002-0414-GTP-350-158	4/2/2014	345686	345686013	Volatiles	trichloroethene	µg/L	0.41	J		X	Trace Level Detect	0.41 J
K10002-0414-GTP-EFF-158	4/2/2014	345686	345686014	VOCs	trichloroethene	µg/L	0.42	J		X	Trace Level Detect	0.42 J

Table 3.1 (Continued)
Data Quality Evaluation Results
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Identification	Date Sampled	SDG	Laboratory Number	Analysis	Parameter	Units	Lab Result	Data Review Qualifier	RPD	TR	Comments	Final Result
K10002-0414-GTP-EFF-158	4/2/2014	345686	345686014	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	µg/L	0.21	J		X	Trace Level Detect	0.21 J
K10002-0414-GTP-INF-158	4/2/2014	345686	345686015	Explosives	1,3,5-trinitrobenzene	µg/L	0.2	J		X	Trace Level Detect	0.20 J
K10002-0414-GTP-INF-158	4/2/2014	345686	345686015	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	µg/L	0.34	J		X	Trace Level Detect	0.34 J
K10002-0414-GTP-INF-158	4/2/2014	345686	345686015	Volatiles	trichloroethene	µg/L	0.67	J		X	Trace Level Detect	0.67 J
K10002-0414-LL4-EFF-048	4/2/2014	345686	345686002	VOCs	trichloroethene	µg/L	0.47	J		X	Trace Level Detect	0.47 J
K10002-0514-EW-11_UVEFF-005	5/5/2014	348055	348055019	Explosives	4-amino-2,6-dinitrotoluene	µg/L	0.37	J		X	Trace Level Detect	0.37 J
K10002-0514-EW-11_UVEFF-005	5/5/2014	348055	348055019	TSS	Suspended Solids (Residue, Non-Filterable)	mg/L	1.2	J	X	X	Lab Replicate RPD,Trace Level Detect	1.2 J
K10002-0514-EW-11_UVINF-005	5/5/2014	348055	348055020	Explosives	1,3,5-trinitrobenzene	µg/L	0.3	J		X	Trace Level Detect	0.30 J
K10002-0514-EW-14_UVEFF-005	5/5/2014	348055	348055016	Explosives	4-amino-2,6-dinitrotoluene	µg/L	0.16	J		X	Trace Level Detect	0.16 J
K10002-0514-EW-14_UVEFF-005	5/5/2014	348055	348055016	Explosives	hexahydro-1,3,5-trinitro-1,3,5-triazine	µg/L	0.26	J		X	Trace Level Detect	0.26 J
K10002-0514-EW-4_UVEFF-005	5/5/2014	348055	348055010	Explosives	4-amino-2,6-dinitrotoluene	µg/L	0.18	J		X	Trace Level Detect	0.18 J
K10002-0514-EW-4_UVINF-005	5/5/2014	348055	348055011	Explosives	4-amino-2,6-dinitrotoluene	µg/L	0.37	J		X	Trace Level Detect	0.37 J

Table 3.1 (Continued)
Data Quality Evaluation Results
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample Identification	Date Sampled	SDG	Laboratory Number	Analysis	Parameter	Units	Lab Result	Data Review Qualifier	RPD	TR	Comments	Final Result
K10002-0514-EW-9_UVINF-005	5/5/2014	348055	348055015	TSS	Suspended Solids (Residue, Non-Filterable)	mg/L	0.67	J		X	Trace Level Detect	0.67 J
K10002-0514-LL1-AIR-EFF	5/5/2014	1405229	1405229-001A	Volatiles-Air	cis-1,2-dichloroethene	PPBV	0.44	J		X	Trace Level Detect	0.44 J
K10002-0514-LL4-AIR-EFF	5/5/2014	1405229	1405229-002A	Volatiles-Air	cis-1,2-dichloroethene	PPBV	2.8	J		X	Trace Level Detect	2.8 J
K10002-0514-WC-EFF	5/27/2014	349466	349466003	Volatiles	trichloroethene	µg/L	0.68	J		X	Trace Level Detect	0.68 J

Notes:
EW = extraction well
FEW = focused extraction well
INF = influent
Lab = laboratory
LCS = laboratory control sample
LL = load line
µg/L = micrograms per liter
mg/L = milligrams per liter
ppbv - parts per billion volume
%R = percent recovery
SDG = sample delivery group
TSS = total suspended solids
VOCs = volatile organic compounds by Method 624
J = The contaminant was detected, but there is some question that the stated concentration is exact.
UJ = Contaminant was not detected, but the associated detection level is not certain (estimated).

Reason for Qualification:
HT = Holding Time
RPD = Relative percent difference in lab replicate
TR = Trace level detection

Table 3.2
VOC Quality Control Outliers
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID(s) Requiring Qualification	SDG	Compound(s)	QC Outlier	QC Parameter Control Limit	QC Result
LCS Recovery					
K10002-0414-AOP-EFF2-158	345686	1,1-Dichloroethene	LCS < minimum LCL	74 - 130 %	71.0%
K10002-0414-GTP-EFF-158	345686	1,1-Dichloroethene	LCS < minimum LCL	74 - 130 %	71.0%
K10002-0414-LL1-EFF-102	345686	1,1-Dichloroethene	LCS < minimum LCL	74 - 130 %	71.0%
K10002-0414-LL4-EFF-048	345686	1,1-Dichloroethene	LCS < minimum LCL	74 - 130 %	71.0%
K10002-0514-LL4-AIR-EFF	1405229	1,2-Dichloropropane	LCS > maximum UCL	69 - 123 %	124.0%
Laboratory Duplicate					
K10002-0514-EW-11_UVEFF-005	348055	Suspended Solids (Non-Filterable Residue)	Laboratory Duplicate exceeds UCL	< 30 RPD	200 RPD

Notes:

AOP = advanced oxidation process
GTP = groundwater treatment plant
ID = identification
LCS = laboratory control sample
LCL = lower control limit
UCL = upper control limit
EW = extraction well
LL = load line
QC = quality control
RPD = relative percent difference
SDG = sample delivery group

Table 4.1
Field Completeness
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Analysis	Number of Samples Planned[1]	Number of Samples Collected[1]	Field Completeness
Explosives	39	38	97.4%
Volatiles	36	36	100.0%
VOCs	6	6	100.0%
TO-15	2	2	100.0%
Totals =	**83**	**82**	**99.4%**
Goal =			**95%**

Notes:
[1]The number of planned and collected samples includes field samples and field duplicate samples.

Table 4.2
Analytical Completeness
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Analysis	Total Number of Parameters[1]	Usable Data[2]	Usable Data Completeness	Usable Data Completeness Goals
Explosives (Analyte Count - 6)	228	228	100%	95%
TOC (Analyte Count - 1)	7	7	100%	95%
TSS (Analyte Count - 1)	7	7	100%	95%
Volatiles (Analyte Count - 2)	12	12	100%	95%
VOCs (Analyte Count - 6)	216	216	100%	95%
Volatiles in Air (Analyte Count - 6)	12	12	100%	95%
Totals =	**482**	**482**	**100.0%**	**95%**

Notes:

[1]Total number of parameters includes field samples (includes data points from dilutions and/or reanalyses to be used in place of original data) and field duplicates (does not include field blanks or trip blanks).

[2]Usable data is defined as all non-rejected data.

TOC = total organic carbon

TSS = total suspended solids

VOC = volatile organic compound

Table 4.3
Project Completeness
Second Quarter 2014 Operations and Maintenance Sampling Event
Former Nebraska Ordnance Plant, Mead, Nebraska

Field	Analytical[1]	Project Completeness[2]
99.4%	100.0%	99.7%
Project Completeness Goal =		90%

Notes:

[1]Analytical Completeness is the percentage of usable data (i.e. quality data completeness).

[2]Project Completeness combines sampling and analytical protocols to assess the expectations of the project as a whole. Project completeness is determined by comparing the percentage of samples/measurements that are determined to be usable to the total number of samples/measurements planned.

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APPENDIX A

CHAIN OF CUSTODY RECORDS

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GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	345686 April 2014-O&M	**Work Order Due Date:**	24-APR-14	**Collector:**	C
SDG:	345686	**Package Due Date:**	21-APR-14	**Prelogin #:**	20140313934
Project Manager:	Joanne Harley	**EDD Due Date:**	23-APR-14	**Project ID:**	1333977
Project Name:	HGLG00004			**SDG Status:**	Closed
	Project #K10002, Mead (K10G)			**Logged By:**	JOH1
Purchase Order:	2013-00494				
Package Level:	LEVEL4				
EDD Name:	ERPIMS_ITSI_2_HGLG	**Days to Process:**	15		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
2	F	345686001	TRB-LL4-2INF-042014		02-APR-14 12:22	03-APR-14 08:55	GROUND WATER	0402201403	2			
1		345686002	K10002-0414-LL4-EFF-048		02-APR-14 12:25	03-APR-14 08:55	GROUND WATER	0402201403	3			
2		345686003	K10002-0414-LL4-INF-048		02-APR-14 12:22	03-APR-14 08:55	GROUND WATER	0402201403	3			
2		345686004	K10002-0414-EW-12-102		02-APR-14 12:41	03-APR-14 08:55	GROUND WATER	0402201402	3			
2		345686005	K10002-0414-EW-17-102		02-APR-14 12:45	03-APR-14 08:55	GROUND WATER	0402201402	3			
2	F	345686006	TRB-LL1-2INF-EFF		02-APR-14 12:41	03-APR-14 08:55	GROUND WATER	0402201402	2			
1		345686007	K10002-0414-LL1-EFF-102		02-APR-14 12:51	03-APR-14 08:55	GROUND WATER	0402201402	3			
2		345686008	K10002-0414-LL1-INF-102		02-APR-14 12:48	03-APR-14 08:55	GROUND WATER	0402201402	3			
1		345686009	K10002-0414-AOP-EFF2-158		02-APR-14 08:22	03-APR-14 08:55	GROUND WATER	0402201401	3			
2	F	345686010	TRB-2INF-042014		02-APR-14 07:52	03-APR-14 08:55	GROUND WATER	0402201401	2			
3		345686011	K10002-0414-GTP-310-158		02-APR-14 07:55	03-APR-14 08:55	GROUND WATER	0402201401	5			
3		345686012	K10002-0414-GTP-330-158		02-APR-14 07:57	03-APR-14 08:55	GROUND WATER	0402201401	5			
4		345686013	K10002-0414-GTP-350-158		02-APR-14 08:00	03-APR-14 08:55	GROUND WATER	0402201401	5			
3		345686014	K10002-0414-GTP-EFF-158		02-APR-14 08:03	03-APR-14 08:55	GROUND WATER	0402201401	5			

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Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
3		345686015	K10002-0414-GTP-INF-158		02-APR-14 07:52	03-APR-14 08:55	GROUND WATER	0402201401	5			
5		345686016	K10002-0414-EW-4_UVEFF-004		02-APR-14 08:38	03-APR-14 08:55	GROUND WATER	0402201404	2			
5		345686017	K10002-0414-EW-7_UVEFF-004		02-APR-14 09:18	03-APR-14 08:55	GROUND WATER	0402201404	2			
5		345686018	K10002-0414-EW-9_UVEFF-004		02-APR-14 09:08	03-APR-14 08:55	GROUND WATER	0402201404	2			
5		345686019	K10002-0414-FEW-11_UVEFF-004		02-APR-14 08:52	03-APR-14 08:55	GROUND WATER	0402201404	2			
3		345686020	K10002-0414-FEW-11_UVINF-004		02-APR-14 08:50	03-APR-14 08:55	GROUND WATER	0402201404	5			
5		345686021	K10002-0414-FEW-14_UVEFF-004		02-APR-14 08:43	03-APR-14 08:55	GROUND WATER	0402201404	2			
2	F	345686022	TRB-FEW11-UVINF-042014		02-APR-14 08:50	03-APR-14 08:55	GROUND WATER	0402201404	2			

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	**SW846 8330B Explosives by LCMSMS** LCMSMS Explosives 250ml vol Path 2	**EPA 624 Method List** Volatiles O&M/quarterly Path 1	**EPA 624 Method List** Volatiles O&M/quarterly Path 1	**Volatiles by SW846 8260B** Volatiles Path 1	**Volatiles by SW846 8260B** Volatiles Path 1
345686001	TRB-LL4-2INF-042014				N	
345686002	K10002-0414-LL4-EFF-048		N			
345686003	K10002-0414-LL4-INF-048				N	
345686004	K10002-0414-EW-12-102				N	
345686005	K10002-0414-EW-17-102				N	
345686006	TRB-LL1-2INF-EFF				N	
345686007	K10002-0414-LL1-EFF-102		N			
345686008	K10002-0414-LL1-INF-102				N	
345686009	K10002-0414-AOP-EFF2-158		N			
345686010	TRB-2INF-042014				N	
345686011	K10002-0414-GTP-310-158	N			N	
345686012	K10002-0414-GTP-330-158	N			N	
345686013	K10002-0414-GTP-350-158	N				R
345686014	K10002-0414-GTP-EFF-158	N		R		
345686015	K10002-0414-GTP-INF-158	N			N	
345686016	K10002-0414-EW-4_UVEFF-004	N				
345686017	K10002-0414-EW-7_UVEFF-004	N				
345686018	K10002-0414-EW-9_UVEFF-004	N				

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Sample ID	Client Sample ID	**SW846 8330B Explosives by LCMSMS** LCMSMS Explosives 250ml vol Path 2	**EPA 624 Method List** Volatiles O&M/quarterly Path 1	**EPA 624 Method List** Volatiles O&M/quarterly Path 1	**Volatiles by SW846 8260B** Volatiles Path 1	**Volatiles by SW846 8260B** Volatiles Path 1
345686019	K10002-0414-FEW-11_UVEFF-004	N				
345686020	K10002-0414-FEW-11_UVINF-004	N			N	
345686021	K10002-0414-FEW-14_UVEFF-004	N				
345686022	TRB-FEW11-UVINF-042014				N	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 345686 **Client SDG:** 345686

GEL ID:	**345686001**	**345686002**	**345686003**	**345686004**	**345686005**	**345686006**	**345686007**	**345686008**
Client Sample ID:	TRB-LL4-2INF-042014	K10002-0414-LL4-EFF-048	K10002-0414-LL4-INF-048	K10002-0414-EW-12-102	K10002-0414-EW-17-102	TRB-LL1-2INF-EFF	K10002-0414-LL1-EFF-102	K10002-0414-LL1-INF-102
Client Matrix	WQ	WG	WG	WG	WG	WQ	WG	WG
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 345686 **Client SDG:** 345686

GEL ID:	**345686009**	**345686010**	**345686011**	**345686012**	**345686013**	**345686014**	**345686015**	**345686016**
Client Sample ID:	K10002-0414-AOP-EFF2-158	TRB-2INF-042014	K10002-0414-GTP-310-158	K10002-0414-GTP-330-158	K10002-0414-GTP-350-158	K10002-0414-GTP-EFF-158	K10002-0414-GTP-INF-158	K10002-0414-EW-4_UVEFF-004
Client Matrix	WG	WQ	WG	WG	WG	WG	WG	WG
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 345686 **Client SDG:** 345686

GEL ID:	**345686017**	**345686018**	**345686019**	**345686020**	**345686021**	**345686022**
Client Sample ID:	K10002-0414-EW-7_UVEFF-004	K10002-0414-EW-9_UVEFF-004	K10002-0414-FEW-11_UVEFF-004	K10002-0414-FEW-11_UVINF-004	K10002-0414-FEW-14_UVEFF-004	TRB-FEW11-UVINF-042014
Client Matrix	WG	WG	WG	WG	WG	WQ
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 345686 **Report Date: 11 APR 2014**

Product: LCMX30B_L **Workdef ID:** 1337038 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SW846 8330B Explosives by LCMSMS

Method: SW846 3535A/8330B Low Level
Path: HGL specific
Product Reference: 250ml vol
Samples: 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021
Moisture Correction: "As Received"
Parmname Check: All parmnames scheduled properly
Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
99-35-4	1,3,5-Trinitrobenzene		ug/L	REG	Y	Y	No
54247-05-1	1,3-Dinitrobenzene-d4		ug/L	IS	Y	Y	
118-96-7	2,4,6-Trinitrotoluene		ug/L	REG	Y	Y	
121-14-2	2,4-Dinitrotoluene		ug/L	REG	Y	Y	
93951-90-7	2,6-Dinitrotoluene-d3		ug/L	IS	Y	Y	
35572-78-2	2-Amino-4,6-dinitrotoluene		ug/L	REG	Y	Y	
610-39-9	3,4-Dinitrotoluene		ug/L	SURR	Y	Y	
19406-51-0	4-Amino-2,6-dinitrotoluene		ug/L	REG	Y	Y	
121-82-4	RDX		ug/L	REG	Y	Y	

Product: VOA624_L **Workdef ID:** 1335015 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
EPA 624 Method List

Method: EPA 624
Path: Standard
Product Reference: O&M/quarterly
Samples: 002, 007, 009, 014
Moisture Correction: "As Received"
Parmname Check: All parmnames scheduled properly
Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
75-35-4	1,1-Dichloroethylene		ug/L	REG	Y	Y	No
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	
3855-82-1	1,4-Dichlorobenzene-d4		ug/L	IS	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
56-23-5	Carbon tetrachloride		ug/L	REG	Y	Y	
3114-55-4	Chlorobenzene-d5		ug/L	IS	Y	Y	
67-66-3	Chloroform		ug/L	REG	Y	Y	
462-06-6	Fluorobenzene		ug/L	IS	Y	Y	
91-20-3	Naphthalene		ug/L	REG	Y	Y	
127-18-4	Tetrachloroethylene		ug/L	REG	Y	Y	
108-88-3	Toluene		ug/L	REG	Y	Y	
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Product: VOA8260BL
Volatiles by SW846 8260B
Workdef ID: 1335014 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A

Method:
Path: Standard
Product Reference:
Samples: 001, 003, 004, 005, 006, 008, 010, 011, 012, 013, 015, 020, 022
Moisture Correction: "As Received"
Parmname Check: All parmnames scheduled properly
Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	No
78-87-5	1,2-Dichloropropane		ug/L	REG	Y	Y	
3855-82-1	1,4-Dichlorobenzene-d4		ug/L	IS	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
3114-55-4	Chlorobenzene-d5		ug/L	IS	Y	Y	
462-06-6	Fluorobenzene		ug/L	IS	Y	Y	
75-09-2	Methylene chloride		ug/L	REG	Y	Y	
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	
156-59-2	cis-1,2-Dichloroethylene		ug/L	REG	Y	Y	
156-60-5	trans-1,2-Dichloroethylene		ug/L	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Letters in client IDs should be all in CAPS- EFF not Eff.	Y	
Login Reminder?	Y	Enter sub-category on wo screen: Monitoring Well, Water Supply Wells, or O&M Monitoring
PLEASE CHECK TAT!	Y	Events which contain O&M are X015. Events which contain quarterly are X010. Others default to X015.
Sample Description?	Y	Enter Event from COC in sample description. EDD requires info to load.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0402201403

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 40 mL VOA VIAL, 4 Degrees C

	Sample ID 345686	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds (Analytical Test Method)	E624 - VOCs by E624	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
	Event: April 2014 O&M						1				
1	TRB-LL4-2INF-042014	WQ	4/2/2014	1222	VS/JP	X		FIELDQC	TB3	0.00	0.00
2	K10002-0414-LL4-EFF-048	WG	4/2/2014	1225	VS/JP		X	LL4-EFF	N1	0.00	0.00
3	K10002-0414-LL4-INF-048	WG	4/2/2014	1222	VS/JP	X		LL4-INF	N1	0.00	0.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	Date	Time
[signature]	4-2-2014	1500

Received by: *(Signature)*	Date	Time
Fedex 8681 5425 3502	4-2-2014	1500
P. Wert	4-3-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* & condition

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0402201402

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 40 mL VOA VIAL, 4 Degrees C

	Sample ID 345686	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	E624 - VOCs by E624	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
	Event: April 2014 O&M						1				
1	K10002-0414-EW-12-102	WG	4/2/2014	1241	VS/JP	X		EW-12	N1	0.00	0.00
2	K10002-0414-EW-17-102	WG	4/2/2014	1245	VS/JP	X		EW-17	N1	0.00	0.00
3	TRB-LL1-2INF-EFF	WQ	4/2/2014	1241	VS/JP	X		FIELDQC	TB2	0.00	0.00
4	K10002-0414-LL1-EFF-102	WG	4/2/2014	1251	VS/JP		X	LL1-EFF	N1	0.00	0.00
5	K10002-0414-LL1-INF-102	WG	4/2/2014	1248	VS/JP	X		LL1-INF	N1	0.00	0.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	Date	Time
[signature]	4-2-2014	1500

Received by: *(Signature)*	Date	Time
Fedex 868154253802	4-2-2014	1500
P. Dent	4-3-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0402201401

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 40 mL VOA VIAL, 4 Degrees C

					Analytical Test Method	SW8260B - VOCs: 6 Compounds	E624 - VOCs by E624	SW8330 - Explosives: 6 Compounds			Depth (ft bgs)	
	Event: April 2014 O&M						1	1				
	Sample ID 345686	Matrix	Date	Time	Samp Init.				Location ID	Sample Type	Top	Bottom
1	K10002-0414-AOP-EFF2-158	WG	4/2/2014	0822	VS/JP		X		AOP-EFF	N1	0.00	0.00
2	TRB-2INF-042014	WQ	4/2/2014	0752	VS/JP	X			FIELDQC	TB1	0.00	0.00
3	K10002-0414-GTP-310-158	WG	4/2/2014	0755	VS/JP	X		X	GTP-310	N1	0.00	0.00
4	K10002-0414-GTP-330-158	WG	4/2/2014	0757	VS/JP	X		X	GTP-330	N1	0.00	0.00
5	K10002-0414-GTP-350-158	WG	4/2/2014	0800	VS/JP	X		X	GTP-350	N1	0.00	0.00
6	K10002-0414-GTP-EFF-158	WG	4/2/2014	0803	VS/JP		X	X	GTP-EFF	N1	0.00	0.00
7	K10002-0414-GTP-INF-158	WG	4/2/2014	0752	VS/JP	X		X	GTP-INF	N1	0.00	0.00
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	4-2-2014	1500

Received by: *(Signature)*	**Date**	**Time**
Fedex 8681 5425 3802	4-2-2014	1500
P. Nent	4-3-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0402201404

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

					Analytical Test Method	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds				
	Event: April 2014 O&M						1				
	Sample ID 345686	Matrix	Date	Time	Samp Init.			Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
1	K10002-0414-EW-4_UVEFF-004	WG	4/2/2014	0838	VS/JP		X	EW-4_UVEFF	N1	0.00	0.00
2	K10002-0414-EW-7_UVEFF-004	WG	4/2/2014	0918	VS/JP		X	EW-7_UVEFF	N1	0.00	0.00
3	K10002-0414-EW-9_UVEFF-004	WG	4/2/2014	0908	VS/JP		X	EW-9_UVEFF	N1	0.00	0.00
4	K10002-0414-FEW-11_UVEFF-004	WG	4/2/2014	0852	VS/JP		X	FEW-11_UVEFF	N1	0.00	0.00
5	K10002-0414-FEW-11_UVINF-004	WG	4/2/2014	0850	VS/JP	X	X	FEW-11_UVINF	N1	0.00	0.00
6	K10002-0414-FEW-14_UVEFF-004	WG	4/2/2014	0843	VS/JP		X	FEW-14_UVEFF	N1	0.00	0.00
7	TRB-FEW11-UVINF-042014	WQ	4/2/2014	0850	VS/JP	X		FIELDQC	TB4	0.00	0.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	4-2-2014	1500

Received by: *(Signature)*	**Date**	**Time**
Fedex 8681542538 02	4-2-2014	1500
P. Dent	4-3-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: HGLI	**SDG/AR/COC/Work Order:** 345686
Received By: P. Wlent	**Date Received:** 4-3-14

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM
Classified Radioactive II or III by RSO?		X	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		X	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		X	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe) 2C
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	X			Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): 1304662966
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	X			Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?			X	clients labels
13	COC form is properly signed in relinquished/received sections?	X			
14	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 8681 5425 3862 7949 3643 5368 2C

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials TA Date 04/03/14 Page 1 of 1

Sample Event #158

	Time	PH	Temp	Sand	VOC 5360B	VOC 8624	Explosives 8330
Inf	0752	7.0	14.5	595	3		2
310	0755	7.19	13.8	600	3		2
330	0757	7.22	13.0	595	3		2
350	[illegible]	[illegible]	[illegible]	602	3		2
EFF	0803	7.25	12.7	594		3	2
						~~3~~	
AOP EFF	0822	6.95	9.0	643		3	
EW1 EFF	0938	7.04	11.3	475			2
EW7 EFF	0918	7.14	12.6	517			2
EW9 EFF	0908	7.04	13.3	444			2
EW11 INF	0850	7.21	12.7	680	3		2
EW11 EFF	0852	7.14	12.8	684			2
EW14 EFF	0843	7.08	12.24	484			2

Shipped Samples To GEL via

Fedex # 8681-5425-3802

Sample Event #158 4/2/2014

Time 0700

Calibrated PH + Scond Meters
PH = 7.0 = 6.9/7.0 Scond = 1409 = 1407/1409

Sampled Influent - K10002-0414-GTP-INF-158
Sampled GAC310 - K10002-0414-GTP-310-158
Sampled GAC330 - K10002-0414-GTP-330-158
Sampled GAC350 - K10002-0414-GTP-350-158
Sampled Effluent - K10002-0414-GTP-EFF-158

Sampled AOP Effluent - K10002-0414-AOP-EFF2-158

Sampled EW4 - UW Effluent - K10002-0414-EW4_UWEFF-004
Sampled EW7 UW Effluent - K10002-0414-EW-7_UWEFF-004
Sampled EW9 UW Effluent - K10002-0414-EW-9_UWEFF-004
Sampled EW11 UW Influent - K10002-0414-EW-11_UWINF-004
Sampled EW11 UW Effluent - K10002-0414-EW-11_UWEFF-004
Sampled EW14 UW Effluent - K10002-0414-EW-14_UWEFF-004

Temperature - 35° Humidity - 64%

Wind - 7.5 @ 7 mph Skies - Cloudy

Sample Event #48 9-2-2014

Time — Calibrated PH + Sound Meters

0700 — PH = 7.0 = 6.9/7.0 Sound = 1409 = 1409/1408

Sampled Influent - K10002-0414-LL4-INF-04

Sampled Effluent - K10002-0414-LL4-EFF-04

	Time	PH	Temp	Sound	WC 82603	WC 82624
INF	1222	7.06	10.6	622	3	
EFF	1225	8.17	11.8	620		3

Temp - 30° Wind - NE @ 7mph

Humidity - 64% Skies - Cloudy

Shipped to GEL via

Fedex # 8681-5425-2964

Sample Event #102 4-2-2014

Time 0700 Calibrated PH & Scond Meter

PH = 7.0 = 6.9/7.0 Scond = 1409 = 1409/1407

Sampled EW-12 - K10002 - 0414 - EW-12-102

Sampled EW-17 - K10002 - 0414 - EW-17-102

Sampled IWF - K10002 - 0414 - LL1 - IWF-102

Sampled EFF K10002 - 0414 - LL1 - EFF-102

	Time	PH	Temp	Scond	Vol 826013	Vol E624
EW-12	1241	7.04	11.2	508	3	
EW-17	1245	7.01	11.6	518	3	
IWF	1248	6.98	11.4	554	3	
EFF	1251	8.18	11.2	542		3

Shipped Samples To GFU Inc

Fedex # 8681 5425 2802

Temp - 35° Humidity - 64%

Skies - Cloudy wind NE @ 7 mph

Table 1
Operations and Maintenance Sampling Requirements - 201-Support Services
Former NOP, Mead, Nebraska

Location	VOCs	Explosives	TSS	TOC	pH
EW-4 UV Influent	Annual[1]	Quarterly[1]	Annual	Annual	NS
EW-4 UV Effluent [2]	N/A	Monthly	NS	NS	Monthly
EW-7 UV Influent	Annual	Quarterly	Annual	Annual	NS
EW-7 UV Effluent	N/A	Monthly	NS	NS	Monthly
EW-9 UV Influent	Annual	Quarterly	Annual	Annual	NS
EW-9 UV Effluent	N/A	Monthly	NS	NS	Monthly
FEW-14 UV Influent	Annual	Quarterly	Annual	Annual	NS
FEW-14 UV Effluent	N/A	Monthly	NS	NS	Monthly
Total Samples	**4**	**64**	**4**	**4**	**N/A**
Location	**VOCs**	**Explosives**	**TSS**	**TOC**	**pH**
EW-1R	Quarterly	Semi-Annual[1]	NS	NS	NS
FEW-15	Quarterly	Semi-Annual	NS	NS	NS
LL4 Influent[5]	Monthly	Annual	Annual	Annual	NS
LL4 Effluent	Monthly	Annual	NS	NS	Monthly
LL4 Effluent Air (TCE)	Quarterly	N/A	NS	NS	NS
Total Water Samples	**36**	**6**	**1**	**1**	**12**
Total Air Samples	**4**	**N/A**	**N/A**	**N/A**	**N/A**
Location	**VOCs**	**Explosives**	**TSS**	**TOC**	**pH**
FEW-11/EW-5 UV Influent[3]	Monthly	Monthly	NS	NS	NS
FEW-11/EW-5 UV Effluent	N/A	Monthly	NS	NS	Monthly
AOP Influent[4]	N/A	N/A	Annual	Annual	NS
AOP Effluent	Monthly	N/A	NS	NS	Monthly
Total Samples	**24**	**24**	**1**	**1**	**N/A**
Location	**VOCs**	**Explosives**	**TSS**	**TOC**	**pH**
EW-12	Monthly	Semi-Annual	NS	NS	NS
EW-17	Monthly	Semi-Annual	NS	NS	NS
LL1 Influent[5]	Monthly	Annual	Annual	Annual	NS
LL1 Effluent	Monthly	Annual	NS	NS	Monthly
LL1 Effluent Air (TCE)	Quarterly	N/A	NS	NS	NS
Total Water Samples	**52**	**6**	**1**	**1**	**N/A**
Total Air Samples	**4**	**N/A**	**N/A**	**N/A**	**N/A**
Location	**VOCs**	**Explosives**	**TSS**	**TOC**	**pH**
GCW-1	Quarterly	N/A			
MW-40B	Annual				
MW-72A	Annual				
MW-72B	Annual				
MW-73A	Annual				
MW-73B	Annual				
Total Water Samples	**9**	**N/A**	**N/A**	**N/A**	**N/A**

Parameter	Total Samples Per Year[7]
VOCs (water)	**125**
Explosives	**100**
VOCs (air)	**8**
TSS	**7**
TOC	**7**

Notes:

[1] - Annual samples are collected in May; Semiannual samples are collected in May and November; and Quarterly samples are collected in February, May, August, and November.

[2] - EW-4 is the only extraction well discharging to Clear Creek. Therefore, an alternate sample location is the Clear Creek Outfall.

[3] - The FEW-11 UV Unit is located at EW-5 pump house.

[4] - The FEW-11/EW-5 UV effluent is the AOP influent.

[5] - Influent samples at LL4 and LL1 will be sampled annually in May for total suspended solids (TSS) and total organic carbon (TOC).

[6] - The analyses for GCW-1 and the associated monitoring wells were determined from the 2013 quarterly sampling regimen.

[7] - Total samples do not include QC samples (i.e., duplicates, rinsate blanks, MS/MSDs).

AOP - Advanced Oxidation Process
FEW - focused extraction well
GCW - groundwater circulation well
LL - load line
MW - monitoring well
N/A - not applicable
NS - not sampled
TOC - total organic carbon
TSS - total suspended solids
UV - ultra violet

VOCs - volatile organic compounds; consists of trichloroethene (TCE), cis-1,2-dichloroethene, trans-1,2-dichloroethene, vinyl chloride, methylene chloride, and 1,2-dichloropropane

Explosives analytes consist of 2,4-dinitrotoluene, 2-amino-4,6-dinitrotoluene, 4-amino-2,6-dinitrotoluene, hexahydro 1,3,5-trinitro-1,3,5-trazine (RDX), 2,4,6-trinitrotoluene (TNT), 1,3,5-trinitrobenzene

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	348055	**Work Order Due Date:**	27-MAY-14	**Collector:**	C
SDG:	348055	**Package Due Date:**	24-MAY-14	**Prelogin #:**	20140516210
Project Manager:	Joanne Harley	**EDD Due Date:**	26-MAY-14	**Project ID:**	1333977
Project Name:	HGLG00004			**SDG Status:**	Closed
	Project #K10002, Mead (K10G)			**Logged By:**	JOH1
Purchase Order:	2013-00494				
Package Level:	LEVEL4				
EDD Name:	ERPIMS_ITSI_2_HGLG	**Days to Process:**	15		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		348055001	K10002-0514-EW-1R-049		05-MAY-14 09:20	06-MAY-14 09:00	GROUND WATER	0505201401	5			
1		348055002	K10002-0514-EW-15-049		05-MAY-14 09:50	06-MAY-14 09:00	GROUND WATER	0505201401	5			
1		348055003	K10002-0514-LL4-EFF-049		05-MAY-14 08:05	06-MAY-14 09:00	GROUND WATER	0505201401	5			
2		348055004	K10002-0514-LL4-INF-049		05-MAY-14 08:02	06-MAY-14 09:00	GROUND WATER	0505201401	7			
1		348055005	K10002-0514-EW-12-103		05-MAY-14 07:36	06-MAY-14 09:00	GROUND WATER	0505201402	5			
1		348055006	K10002-0514-EW-17-103		05-MAY-14 07:38	06-MAY-14 09:00	GROUND WATER	0505201402	5			
3	F	348055007	TRB-LL1-2INF-052014		05-MAY-14 07:36	06-MAY-14 09:00	GROUND WATER	0505201402	2			
2		348055008	K10002-0514-LL1-INF-103		05-MAY-14 07:45	06-MAY-14 09:00	GROUND WATER	0505201402	7			
1		348055009	K10002-0514-LL1-EFF-103		05-MAY-14 07:41	06-MAY-14 09:00	GROUND WATER	0505201402	5			
4		348055010	K10002-0514-EW-4_UVEFF-005		05-MAY-14 10:30	06-MAY-14 09:00	GROUND WATER	0505201403	2			
2		348055011	K10002-0514-EW-4_UVINF-005		05-MAY-14 10:27	06-MAY-14 09:00	GROUND WATER	0505201403	7			
4		348055012	K10002-0514-EW-7_UVEFF-005		05-MAY-14 11:03	06-MAY-14 09:00	GROUND WATER	0505201403	2			
2		348055013	K10002-0514-EW-7_UVINF-005		05-MAY-14 11:00	06-MAY-14 09:00	GROUND WATER	0505201403	7			
4		348055014	K10002-0514-EW-9_UVEFF-005		05-MAY-14 10:53	06-MAY-14 09:00	GROUND WATER	0505201403	2			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
2		348055015	K10002-0514-EW-9_UVINF-005		05-MAY-14 10:50	06-MAY-14 09:00	GROUND WATER	0505201403	7			
4		348055016	K10002-0514-EW-14_UVEFF-005		05-MAY-14 10:23	06-MAY-14 09:00	GROUND WATER	0505201403	2			
2		348055017	K10002-0514--EW-14_UVINF-005		05-MAY-14 10:20	06-MAY-14 09:00	GROUND WATER	0505201403	7			
3		348055018	K10002-0514-AOP-EFF2-159		05-MAY-14 10:40	06-MAY-14 09:00	GROUND WATER	0505201404	3			
5		348055019	K10002-0514-EW-11_UVEFF-005		05-MAY-14 10:12	06-MAY-14 09:00	GROUND WATER	0505201404	4			
1		348055020	K10002-0514-EW-11_UVINF-005		05-MAY-14 10:09	06-MAY-14 09:00	GROUND WATER	0505201404	5			
3		348055021	K10002-0514-GCW-1-EFF		05-MAY-14 10:00	06-MAY-14 09:00	GROUND WATER	0505201405	3			
3		348055022	K10002-0514-GCW-1-INF		05-MAY-14 09:57	06-MAY-14 09:00	GROUND WATER	0505201405	3			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	SM 2540D Total Suspended Liq G-Chem Path 1	SW846 8330B Explosives by LCMSMS LCMSMS Explosives Path 2 250ml vol	SW 9060A Total Organic Carbon G-Chem Path 1	Volatiles by SW846 8260B Volatiles Path 1
348055001	K10002-0514-EW-1R-049		N		N
348055002	K10002-0514-EW-15-049		N		N
348055003	K10002-0514-LL4-EFF-049		N		N
348055004	K10002-0514-LL4-INF-049	N	N	N	N
348055005	K10002-0514-EW-12-103		N		N
348055006	K10002-0514-EW-17-103		N		N
348055007	TRB-LL1-2INF-052014				N
348055008	K10002-0514-LL1-INF-103	N	N	N	N
348055009	K10002-0514-LL1-EFF-103		N		N
348055010	K10002-0514-EW-4_UVEFF-005		N		
348055011	K10002-0514-EW-4_UVINF-005	N	N	N	N
348055012	K10002-0514-EW-7_UVEFF-005		N		
348055013	K10002-0514-EW-7_UVINF-005	N	N	N	N
348055014	K10002-0514-EW-9_UVEFF-005		N		
348055015	K10002-0514-EW-9_UVINF-005	N	N	N	N
348055016	K10002-0514-EW-14_UVEFF-005		N		
348055017	K10002-0514--EW-14_UVINF-005	N	N	N	N
348055018	K10002-0514-AOP-EFF2-159				N

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Sample ID	Client Sample ID	SM 2540D Total Suspended Liq G-Chem Path 1	SW846 8330B Explosives by LCMSMS LCMSMS Explosives Path 2 250ml vol	SW 9060A Total Organic Carbon G-Chem Path 1	Volatiles by SW846 8260B Volatiles Path 1
348055019	K10002-0514-EW-11_UVEFF-005	N	N	N	
348055020	K10002-0514-EW-11_UVINF-005		N		N
348055021	K10002-0514-GCW-1-EFF				N
348055022	K10002-0514-GCW-1-INF				N

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 348055 **Client SDG:** 348055

GEL ID:	**348055001**	**348055002**	**348055003**	**348055004**	**348055005**	**348055006**	**348055007**	**348055008**
Client Sample ID:	K10002-0514-EW-1R-049	K10002-0514-EW-15-049	K10002-0514-LL4-EFF-049	K10002-0514-LL4-INF-049	K10002-0514-EW-12-103	K10002-0514-EW-17-103	TRB-LL1-2INF-052014	K10002-0514-LL1-INF-103
Client Matrix	WG	WG	WG	WG	WG	WG	WQ	WG
Cooler Seal Undisturbed	y	y	y	y	y	y	y	y
Temperature (C)	3	3	3	3	3	3	3	3

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 348055 **Client SDG:** 348055

GEL ID:	**348055009**	**348055010**	**348055011**	**348055012**	**348055013**	**348055014**	**348055015**	**348055016**
Client Sample ID:	K10002-0514-LL1-EFF-103	K10002-0514-EW-4_UVEFF-005	K10002-0514-EW-4_UVINF-005	K10002-0514-EW-7_UVEFF-005	K10002-0514-EW-7_UVINF-005	K10002-0514-EW-9_UVEFF-005	K10002-0514-EW-9_UVINF-005	K10002-0514-EW-14_UVEFF-005
Client Matrix	WG	WG	WG	WG	WG	WG	WG	WG
Cooler Seal Undisturbed	y	y	y	y	y	y	y	y
Temperature (C)	3	3	3	3	3	3	3	3

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 348055 **Client SDG:** 348055

GEL ID:	**348055017**	**348055018**	**348055019**	**348055020**	**348055021**	**348055022**
Client Sample ID:	K10002-0514--EW-14_UVINF-005	K10002-0514-AOP-EFF2-159	K10002-0514-EW-11_UVEFF-005	K10002-0514-EW-11_UVINF-005	K10002-0514-GCW-1-EFF	K10002-0514-GCW-1-INF
Client Matrix	WG	WG	WG	WG	WG	WG
Cooler Seal Undisturbed	y	y	y	y	y	y
Temperature (C)	3	3	3	3	3	3

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 348055 **Report Date: 12 MAY 2014**

Product: BALSSSM_L **Workdef ID:** 1335017 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SM 2540D Total Suspended Liq

Method: SM 2540D **Path:** Standard
Product Reference:
Samples: 004, 008, 011, 013, 015, 017, 019 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Total Suspended Solids		mg/L	REG	Y	Y	No

Product: LCMX30B_L **Workdef ID:** 1337038 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SW846 8330B Explosives by LCMSMS

Method: SW846 3535A/8330B Low Level **Path:** HGL specific
Product Reference: 250ml vol
Samples: 001, 002, 003, 004, 005, 006, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 019, 020 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
99-35-4	1,3,5-Trinitrobenzene		ug/L	REG	Y	Y	No
54247-05-1	1,3-Dinitrobenzene-d4		ug/L	IS	Y	Y	
118-96-7	2,4,6-Trinitrotoluene		ug/L	REG	Y	Y	
121-14-2	2,4-Dinitrotoluene		ug/L	REG	Y	Y	
93951-90-7	2,6-Dinitrotoluene-d3		ug/L	IS	Y	Y	
35572-78-2	2-Amino-4,6-dinitrotoluene		ug/L	REG	Y	Y	
610-39-9	3,4-Dinitrotoluene		ug/L	SURR	Y	Y	
19406-51-0	4-Amino-2,6-dinitrotoluene		ug/L	REG	Y	Y	
121-82-4	RDX		ug/L	REG	Y	Y	

Product: TOCTOCSW60A **Workdef ID:** 1335018 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SW 9060A Total Organic Carbon

Method: SW846 9060A **Path:** Standard
Product Reference:
Samples: 004, 008, 011, 013, 015, 017, 019 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Total Organic Carbon Average		mg/L	REG	Y	Y	Yes

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Product: VOA8260BL
Volatiles by SW846 8260B
Workdef ID: 1335014 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A

Method:
Path: Standard
Product Reference:
Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 011, 013, 015, 017, 018, 020, 021, 022
Moisture Correction: "As Received"
Parmname Check: All parmnames scheduled properly
Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	No
78-87-5	1,2-Dichloropropane		ug/L	REG	Y	Y	
3855-82-1	1,4-Dichlorobenzene-d4		ug/L	IS	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
3114-55-4	Chlorobenzene-d5		ug/L	IS	Y	Y	
462-06-6	Fluorobenzene		ug/L	IS	Y	Y	
75-09-2	Methylene chloride		ug/L	REG	Y	Y	
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	
156-59-2	cis-1,2-Dichloroethylene		ug/L	REG	Y	Y	
156-60-5	trans-1,2-Dichloroethylene		ug/L	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Letters in client IDs should be all in CAPS- EFF not Eff.	Y	
Login Reminder?	Y	Enter sub-category on wo screen: Monitoring Well, Water Supply Wells, or O&M Monitoring
PLEASE CHECK TAT!	Y	Events which contain O&M are X015. Events which contain quarterly are X010. Others default to X015.
Sample Description?	Y	Enter Event from COC in sample description. EDD requires info to load.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0505201401

348055

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C
5	1* 250 mL Amber Glass Bottles, H2SO4 < pH 2, 4 degrees C

					Analytical Test Method	SW8260B - VOCs: 6 Compounds	A2540D - TSS	SW8330 - Explosives: 6 Compounds	SW9060 - TOC				
	Event: May 2014 O&M						1	1	5				
	Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
1	K10002-0514-EW-1R-049	WG	5/5/2014	0920	VS/J	X		X		EW-1R	N1	42.50	43.50
2	K10002-0514-EW-15-049	WG	5/5/2014	0950	VS/J	X		X		FEW-15	N1	110.00	111.00
3	K10002-0514-LL4-EFF-049	WG	5/5/2014	0805	VS/J	X		X		LL4-EFF	N1	0.00	0.00
4	K10002-0514-LL4-INF-049	WG	5/5/2014	0802	VS/J	X	X	X	X	LL4-INF	N1	0.00	0.00
Cooler # 1		**Turnaround Time:**											

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/5/14	1600
FED EX		

Received by: *(Signature)*	**Date**	**Time**
Fedex 8675 3614 6766	5/5/14	1600
[signature]	5-6-14	0900

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0505201402

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C
5	1* 250 mL Amber Glass Bottles, H2SO4 < pH 2, 4 degrees C

					Analytical Test Method	SW8260B - VOCs: 6 Compounds	A2540D - TSS	SW8330 - Explosives: 6 Compounds	SW9060 - TOC				
	Event: May 2014 O&M						1	1	5				
	Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
1	K10002-0514-EW-12-103	WG	5/5/2014	0736	VS/J	X		X		EW-12	N1	60.50	90.50
2	K10002-0514-EW-17-103	WG	5/5/2014	0738	VS/J	X		X		EW-17	N1	0.00	0.00
3	TRB-LL1-2INF-052014	WQ	5/5/2014	0736	VS/J	X				FIELDQC	TB3	0.00	0.00
4	K10002-0514-LL1-INF-103	WG	5/5/2014	0745	VS/J	X	X	X	X	LL1-EFF	N1	0.00	0.00
5	K10002-0514-LL1-EFF-103	WG	5/5/2014	0741	VS/J	X		X		LL1-INF	N1	0.00	0.00
Cooler # 1		**Turnaround Time:**											

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/5/2014	1600
FED EX		

Received by: *(Signature)*	**Date**	**Time**
Fed Ex	5/5/2014	1600
8675 3614 6766		
[signature]	5-6-14	0900

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0505201403

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C
5	1* 250 mL Amber Glass Bottles, H2SO4 < pH 2, 4 degrees C

	Event: May 2014 O&M				**Analytical Test Method**	SW8260B - VOCs: 6 Compounds	A2540D - TSS	SW8330 - Explosives: 6 Compounds	SW9060 - TOC			Depth (ft bgs)	
							1	1	5			Top	Bottom
	Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type		
1	K10002-0514-EW-4_UVEFF-005	WG	5/5/2014	1030	VS/J			X		EW-4_UVEFF	N1	0.00	0.00
2	K10002-0514-EW-4_UVINF-005	WG	5/5/2014	1027	VS/J	X	X	X	X	EW-4_UVINF	N1	0.00	0.00
3	K10002-0514-EW-7_UVEFF-005	WG	5/5/2014	1103	VS/J			X		EW-7_UVEFF	N1	0.00	0.00
4	K10002-0514-EW-7_UVINF-005	WG	5/5/2014	1100	VS/J	X	X	X	X	EW-7_UVINF	N1	0.00	0.00
5	K10002-0514-EW-9_UVEFF-005	WG	5/5/2014	1053	VS/J			X		EW-9_UVEFF	N1	0.00	0.00
6	K10002-0514-EW-9_UVINF-005	WG	5/5/2014	1050	VS/J	X	X	X	X	EW-9_UVINF	N1	0.00	0.00
7	K10002-0514-EW-14_UVEFF-005	WG	5/5/2014	1023	VS/J			X		FEW-14_UVEFF	N1	0.00	0.00
8	K10002-0514-EW-14_UVINF-005	WG	5/5/2014	1020	VS/J	X	X	X	X	FEW-14_UVINF	N1	0.00	0.00
Cooler # 1		**Turnaround Time:**											

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/5/2014	1600
FED EX		

Received by: *(Signature)*	**Date**	**Time**
Fed Ex 867536146766	5/5/2014	1600
[signature]	5-6-14	0900

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0505201404

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Code	Matrix
WG	Ground Water

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	1* 250-mL HDPE, 4 Degrees C
5	1* 250 mL Amber Glass Bottles, H2SO4 < pH 2, 4 degrees C

					Analytical Test Method	SW8260B - VOCs: 6 Compounds	A2540D - TSS	SW8330 - Explosives: 6 Compounds	SW9060 - TOC				
	Event: May 2014 O&M						1	1	5				
	Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
1	K10002-0514-AOP-EFF2-159	WG	5/5/2014	1040	VS/J	X				AOP-EFF	N1	0.00	0.00
2	K10002-0514-EW-11_UVEFF-005	WG	5/5/2014	1012	VS/J		X	X	X	FEW-11_UVEFF	N1	0.00	0.00
3	K10002-0514-EW-11_UVINF-005	WG	5/5/2014	1009	VS/J	X		X		FEW-11_UVINF	N1	0.00	0.00
Cooler # 1		**Turnaround Time:**											

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/5/2014	1600
FED EX		

Received by: *(Signature)*	**Date**	**Time**
Fed Ex	5/5/2014	1600
867536146766		
[signature]	5-6-14	0900

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0505201405

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@g
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method: SW8260B - VOCs: 6 Compounds

Code	Matrix
WG	Ground Water

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,

Event: May 2014 O&M

	Sample ID	Matrix	Date	Time	Samp Init.		Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
1	K10002-0514-GCW-1-EFF	WG	5/5/2014	1000	VS/J	X	GCW1-EFF	N1	0.00	0.00
2	K10002-0514-GCW-1-INF	WG	5/5/2014	0957	VS/J	X	GCW1-INF	N1	0.00	0.00

Cooler # 1 | **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
[signature]	5/5/2014	1600
FED EX		

Received by: *(Signature)*	Date	Time
[signature] Fed Ex		
867536146766	5/5/2014	1600
[signature]	5-6-14	0900

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* & condition

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: HGG	**SDG/AR/COC/Work Order:** 348055
Received By: MK	**Date Received:** 5-6-14

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 3C
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 130532776 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?			✓	Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			
14	Carrier and tracking number.	✓			Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 7949 4875 6405 3C 8675 3614 6766 3C 7949 4875 6390 3C

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JMW Date 5/6/14 Page 1 of 1

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	348401 May 2014 O&M	**Work Order Due Date:**	15-MAY-14	**Collector:**	C
SDG:	348401	**Package Due Date:**	14-MAY-14	**Prelogin #:**	20140516430
Project Manager:	Joanne Harley	**EDD Due Date:**	14-MAY-14	**Project ID:**	1333977
Project Name:	HGLG00004	**Fax Due Date:**	13-MAY-14	**SDG Status:**	Closed
	Project #K10002, Mead (K10G)			**Logged By:**	JOH1
Purchase Order:	2013-00494				
Package Level:	LEVEL4				
EDD Name:	ERPIMS_ITSI_2_HGLG	**Days to Process:**	6		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1	F	348401001	TRB-WC-052014		08-MAY-14 13:55	09-MAY-14 09:30	WATER		3			
2		348401002	K10002-0514-WC-EFF		08-MAY-14 13:55	09-MAY-14 09:30	GROUND WATER		5			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	SW846 8330B Explosives by LCMSMS LCMSMS Explosives 250ml vol Path 2	EPA 624 Method List Volatiles O&M/quarterly Path 1
348401001	TRB-WC-052014		R
348401002	K10002-0514-WC-EFF	R	R

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 348401 **Client SDG:** 348401

GEL ID:	**348401001**	**348401002**
Client Sample ID:	TRB-WC-052014	K10002-0514-WC-EFF
Client Matrix	WQ	WG
Cooler Seal Undisturbed	y	y
Temperature (C)	2	2

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 348401 **Report Date: 12 MAY 2014**

Product: LCMX30B_L **Workdef ID:** 1337038 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SW846 8330B Explosives by LCMSMS

Method: SW846 3535A/8330B Low Level **Path:** HGL specific
Product Reference: 250ml vol
Samples: 002 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** REVW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
99-35-4	1,3,5-Trinitrobenzene		ug/L	REG	Y	Y	No
54247-05-1	1,3-Dinitrobenzene-d4		ug/L	IS	Y	Y	
118-96-7	2,4,6-Trinitrotoluene		ug/L	REG	Y	Y	
121-14-2	2,4-Dinitrotoluene		ug/L	REG	Y	Y	
93951-90-7	2,6-Dinitrotoluene-d3		ug/L	IS	Y	Y	
35572-78-2	2-Amino-4,6-dinitrotoluene		ug/L	REG	Y	Y	
610-39-9	3,4-Dinitrotoluene		ug/L	SURR	Y	Y	
19406-51-0	4-Amino-2,6-dinitrotoluene		ug/L	REG	Y	Y	
121-82-4	RDX		ug/L	REG	Y	Y	

Product: VOA624_L **Workdef ID:** 1335015 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
EPA 624 Method List

Method: EPA 624 **Path:** Standard
Product Reference: O&M/quarterly
Samples: 001, 002 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** REVW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
75-35-4	1,1-Dichloroethylene		ug/L	REG	Y	Y	No
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	
3855-82-1	1,4-Dichlorobenzene-d4		ug/L	IS	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
56-23-5	Carbon tetrachloride		ug/L	REG	Y	Y	
3114-55-4	Chlorobenzene-d5		ug/L	IS	Y	Y	
67-66-3	Chloroform		ug/L	REG	Y	Y	
462-06-6	Fluorobenzene		ug/L	IS	Y	Y	
91-20-3	Naphthalene		ug/L	REG	Y	Y	
127-18-4	Tetrachloroethylene		ug/L	REG	Y	Y	
108-88-3	Toluene		ug/L	REG	Y	Y	
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	

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Login Requirements:

Requirement	Include?	Comments
Letters in client IDs should be all in CAPS- EFF not Eff.	Y	
Login Reminder?	Y	Enter sub-category on wo screen: Monitoring Well, Water Supply Wells, or O&M Monitoring
PLEASE CHECK TAT!	Y	Events which contain O&M are X015. Events which contain quarterly are X010. Others default to X015.
Sample Description?	Y	Enter Event from COC in sample description. EDD requires info to load.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0507201407

348401

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

48 hour TAT

Equipment:

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
1	2* 40 mL VOA VIAL, 4 Degrees C

					Analytical Test Method	E624 - VOCs by E624	SW8330 - Explosives: 6 Compounds			Depth (ft bgs)	
	Event: May 2014 O&M					1	1				
	Sample ID	Matrix	Date	Time	Samp Init.			Location ID	Sample Type	Top	Bottom
1	TRB-WC-052014	WQ	5/8/2014	1355		X		FIELDQC	TB1	0.00	0.00
2	K10002-0514-WC-EFF	WG	5/8/2014	1355	VS/J	X	X	WAHOOCREEK	N1	0.00	0.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	Date	Time
[signature]	5/8/14	1600

Received by: *(Signature)*	Date	Time
Fedex 867536148799	5/8/14	1600
[signature]	5-9-14	0930

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* & condition

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: HGLG	SDG/AR/COC/Work Order: 348404/348418/348401
Received By: JP	Date Received: 5-9-14

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓	✓		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 2
2a	Daily check performed and passed on IR temperature gun?	✓	✓		Temperature Device Serial #: 130460296 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓	✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	✓	✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓	✓		Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	✓			
13	COC form is properly signed in relinquished/received sections?	✓		✓	
14	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 7949 4989 1943 8034 7945 0424 8675 3614 6799

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JP Date 5-12-14 Page 1 of 1

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	348725 May 2014 O&M	**Work Order Due Date:**	21-MAY-14	**Collector:**	C
SDG:	348725	**Package Due Date:**	20-MAY-14	**Prelogin #:**	20140516621
Project Manager:	Joanne Harley	**EDD Due Date:**	20-MAY-14	**Project ID:**	1333977
Project Name:	HGLG00004	**Fax Due Date:**	19-MAY-14	**SDG Status:**	Closed
	Project #K10002, Mead (K10G)			**Logged By:**	JOH1
Purchase Order:	2013-00494				
Package Level:	LEVEL4				
EDD Name:	ERPIMS_ITSI_2_HGLG	**Days to Process:**	6		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		348725001	K10002-0514-CC-EFF		14-MAY-14 11:05	15-MAY-14 09:10	GROUND WATER		5			
2	F	348725002	TRB-CC-052014		14-MAY-14 11:05	15-MAY-14 09:10	WATER		2			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	SW846 8330B Explosives by LCMSMS LCMSMS Explosives full list Path 2	EPA 624 Method List Volatiles Method list. Path 1
348725001	K10002-0514-CC-EFF	R	R
348725002	TRB-CC-052014		R

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 348725 **Client SDG:** 348725

GEL ID:	**348725001**	**348725002**
Client Sample ID:	K10002-0514-CC-EFF	TRB-CC-052014
Temperature (C)	2	2

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 348725 **Report Date: 19 MAY 2014**

Product: LCMX30B_L **Workdef ID:** 1343027 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SW846 8330B Explosives by LCMSMS

Method: SW846 3535A/8330B Low Level **Path:** HGL specific
Product Reference: full list
Samples: 001 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** REVW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
99-35-4	1,3,5-Trinitrobenzene		ug/L	REG	Y	Y	No
118-96-7	2,4,6-Trinitrotoluene		ug/L	REG	Y	Y	
121-14-2	2,4-Dinitrotoluene		ug/L	REG	Y	Y	
606-20-2	2,6-Dinitrotoluene		ug/L	REG	Y	Y	
35572-78-2	2-Amino-4,6-dinitrotoluene		ug/L	REG	Y	Y	
610-39-9	3,4-Dinitrotoluene		ug/L	SURR	Y	Y	
19406-51-0	4-Amino-2,6-dinitrotoluene		ug/L	REG	Y	Y	
2691-41-0	HMX		ug/L	REG	Y	Y	
98-95-3	Nitrobenzene		ug/L	REG	Y	Y	
55-63-0	Nitroglycerin		ug/L	REG	Y	Y	
78-11-5	PETN		ug/L	REG	Y	Y	
121-82-4	RDX		ug/L	REG	Y	Y	
479-45-8	Tetryl		ug/L	REG	Y	Y	
99-65-0	m-Dinitrobenzene		ug/L	REG	Y	Y	
99-08-1	m-Nitrotoluene		ug/L	REG	Y	Y	
88-72-2	o-Nitrotoluene		ug/L	REG	Y	Y	
99-99-0	p-Nitrotoluene		ug/L	REG	Y	Y	

Product: VOA624_L **Workdef ID:** 1343025 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
EPA 624 Method List

Method: EPA 624 **Path:** Standard
Product Reference: Method list.
Samples: 001, 002 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** REVW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
71-55-6	1,1,1-Trichloroethane		ug/L	REG	Y	Y	No
79-34-5	1,1,2,2-Tetrachloroethane		ug/L	REG	Y	Y	
79-00-5	1,1,2-Trichloroethane		ug/L	REG	Y	Y	
75-34-3	1,1-Dichloroethane		ug/L	REG	Y	Y	
75-35-4	1,1-Dichloroethylene		ug/L	REG	Y	Y	
95-50-1	1,2-Dichlorobenzene		ug/L	REG	Y	Y	

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CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
107-06-2	1,2-Dichloroethane		ug/L	REG	Y	Y	
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	
78-87-5	1,2-Dichloropropane		ug/L	REG	Y	Y	
541-73-1	1,3-Dichlorobenzene		ug/L	REG	Y	Y	
106-46-7	1,4-Dichlorobenzene		ug/L	REG	Y	Y	
110-75-8	2-Chloroethylvinyl ether		ug/L	REG	Y	Y	
71-43-2	Benzene		ug/L	REG	Y	Y	
75-27-4	Bromodichloromethane		ug/L	REG	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
75-25-2	Bromoform		ug/L	REG	Y	Y	
74-83-9	Bromomethane		ug/L	REG	Y	Y	
56-23-5	Carbon tetrachloride		ug/L	REG	Y	Y	
108-90-7	Chlorobenzene		ug/L	REG	Y	Y	
75-00-3	Chloroethane		ug/L	REG	Y	Y	
67-66-3	Chloroform		ug/L	REG	Y	Y	
74-87-3	Chloromethane		ug/L	REG	Y	Y	
124-48-1	Dibromochloromethane		ug/L	REG	Y	Y	
100-41-4	Ethylbenzene		ug/L	REG	Y	Y	
75-09-2	Methylene chloride		ug/L	REG	Y	Y	
91-20-3	Naphthalene		ug/L	REG	Y	Y	
127-18-4	Tetrachloroethylene		ug/L	REG	Y	Y	
108-88-3	Toluene		ug/L	REG	Y	Y	
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-69-4	Trichlorofluoromethane		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	
10061-01-5	cis-1,3-Dichloropropylene		ug/L	REG	Y	Y	
156-60-5	trans-1,2-Dichloroethylene		ug/L	REG	Y	Y	
10061-02-6	trans-1,3-Dichloropropylene		ug/L	REG	Y	Y	

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Login Requirements:

Requirement	Include?	Comments
Letters in client IDs should be all in CAPS- EFF not Eff.	Y	
Login Reminder?	Y	Enter sub-category on wo screen: Monitoring Well, Water Supply Wells, or O&M Monitoring
PLEASE CHECK TAT!	Y	Events which contain O&M are X015. Events which contain quarterly are X010. Others default to X015.
Sample Description?	Y	Enter Event from COC in sample description. EDD requires info to load.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0514201409

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

348725

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	Point of contact: Joanne Harley 843-769-7387 joanne.harley@gel.c
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
1	2* 40 mL VOA VIAL, 4 Degrees C

	Sample ID	Matrix	Date	Time	Samp Init.	E624 - VOCs by E624	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom
	Event: May 2014 O&M					1	1				
1	K10002-0514-CC-EFF	WG	5/14/2014	1105	VS/J	X	X	CLEARCREEK	N1	0.00	0.00
2	TRB-CC-052014	WQ	5/14/2014	1105	VS/J	X		FIELDQC	TB1	0.00	0.00
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/14/2014	1600

Received by: *(Signature)*	**Date**	**Time**
Fedex 8675-3614-6814	5/14/2014	1600
P. Ulent 5-15-140915		

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: HCLI	**SDG/AR/COC/Work Order:** 348725
Received By: P. Nuent	**Date Received:** 5-15-14

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM
Classified Radioactive II or III by RSO?		X	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		X	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		X	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	X			Preservation Method: Ice bags Blue ice Dry ice None Other (describe) 2C *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): 130462966
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	X			Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11	Number of containers received match number indicated on COC?			X	Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	X			clients labels
13	COC form is properly signed in relinquished/received sections?	X			
14	Carrier and tracking number.	X			Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 8675 3614 6814-20

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HH Date 05/15/14 Page 1 of 1

GEL Laboratories LLC - Login Review Report - Chain of Custody

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GEL Work Order:	349466 Second Qtr 2014	**Work Order Due Date:**	02-JUN-14	**Collector:**	C
SDG:	349466	**Package Due Date:**	01-JUN-14	**Prelogin #:**	20140517058
Project Manager:	Joanne Harley	**EDD Due Date:**	01-JUN-14	**Project ID:**	1333977
Project Name:	HGLG00004	**Fax Due Date:**	30-MAY-14	**SDG Status:**	Closed
	Project #K10002, Mead (K10G)			**Logged By:**	JOH1
Purchase Order:					
Package Level:	LEVEL4				
EDD Name:	ERPIMS_ITSI_2_HGLG	**Days to Process:**	5		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		349466001	K10002-0514-AOP-EFF2-159		27-MAY-14 14:22	28-MAY-14 09:20	WATER	0527201410	3			
1	F	349466002	TRB-AOP-2EFF2-052014		27-MAY-14 14:22	28-MAY-14 09:20	WATER	0527201410	2			
1	F	349466003	K10002-0514-WC-EFF		27-MAY-14 14:37	28-MAY-14 09:20	WATER	0527201410	3			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	Volatiles by SW846 8260B Volatiles Path 1
349466001	K10002-0514-AOP-EFF2-159	R
349466002	TRB-AOP-2EFF2-052014	R
349466003	K10002-0514-WC-EFF	R

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 349466 **Client SDG:** 349466

GEL ID:	**349466001**	**349466002**	**349466003**
Client Sample ID:	K10002-0514-AOP-EFF2-159	TRB-AOP-2EFF2-052014	K10002-0514-WC-EFF
Client Matrix	WG	WQ	WG
Cooler Seal Undisturbed	y	y	y
Temperature (C)	1	1	1

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 349466 **Report Date: 30 MAY 2014**

Product: VOA8260BL **Workdef ID:** 1335014 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
Volatiles by SW846 8260B

Method:

Path: Standard
Product Reference:

Samples: 001, 002, 003

Moisture Correction: "As Received"

Parmname Check: All parmnames scheduled properly

Status: REVW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	No
78-87-5	1,2-Dichloropropane		ug/L	REG	Y	Y	
3855-82-1	1,4-Dichlorobenzene-d4		ug/L	IS	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
3114-55-4	Chlorobenzene-d5		ug/L	IS	Y	Y	
462-06-6	Fluorobenzene		ug/L	IS	Y	Y	
75-09-2	Methylene chloride		ug/L	REG	Y	Y	
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	
156-59-2	cis-1,2-Dichloroethylene		ug/L	REG	Y	Y	
156-60-5	trans-1,2-Dichloroethylene		ug/L	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Letters in client IDs should be all in CAPS- EFF not Eff.	Y	
Login Reminder?	Y	Enter sub-category on wo screen: Monitoring Well, Water Supply Wells, or O&M Monitoring
PLEASE CHECK TAT!	Y	Events which contain O&M are X015. Events which contain quarterly are X010. Others default to X015.
Sample Description?	Y	Enter Event from COC in sample description. EDD requires info to load.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0527201410

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

3494466

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

48 hr TAT

Equipment:

Analytical Test Method: SW8260B - VOCs: 6 Compounds

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,

Event: May 2014 O&M

	Sample ID	Matrix	Date	Time	Samp Init.		Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
1	K10002-0514-AOP-EFF2-159	WG	5/27/2014	1422	VS	X	AOP-EFF	N1	0.00	0.00	
2	TRB-AOP-2EFF2-052014	WQ	5/27/2014	1422	VS	X	FIELDQC	TB1	0.00	0.00	
3	K10002-0514-WC-EFF	WG	5/27/2014	1437	VS/N	X	WAHOOCREEK	N1	0.00	0.00	
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/27/2014	1830

Received by: *(Signature)*	**Date**	**Time**
Fedex 867536147008	5-27-2014	1830
[signature]	5-28-14	0920

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: HGLG	SDG/AR/COC/Work Order: 3494616
Received By: JP	Date Received: 5-28-14

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓	✓		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Ice bags) Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 130462961 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			
14	Carrier and tracking number.				Circle Applicable: (FedEx Air) FedEx Ground UPS Field Services Courier Other 8675 3614 7008

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JP Date 5-28-14 Page 1 of 1

Sample Event #159 AOP COC #0505201404
UV COC #0505201403
GCW COC # 0505201405
5-5-2014 Air COC# 0505201406

Time 0655 Calibrated Ph + Sound Meters
PH = 7.0 = 6.8/7.0 Sound = 1409 – 1343/1409

Sampled EW4 UV Effluent – K10002-0514-EW-4 = UVEFF-005
Sampled EW4 UV Influent – K10002-0514-EW-4 = UVINF-005
Sampled EW7 UV Effluent – K10002-0514-EW-7 = UVEFF-005
Sampled EW7 UV Influent – K10002-0514-EW-7 = UVINF-005
Sampled EW9 UV Effluent – K10002-0514-EW-9 = UVEFF-005
Sampled EW9 UV Influent – K10002-0514-EW-9 = UVINF-005
Sampled EW 14 UV Effluent – K10002-0514-EW-14 = UVEFF-005
Sampled EW 14 UV Influent – K10002-0514-EW-14 = UVINF-005

Sampled AOP EFF2 – K10002-0514-AOP-EFF2-159
Sampled EW-11 UV Eff – K10002-0514-EW-11 = UVEFF-005
Sampled EW-11 UV Inf – K10002-0514-EW-11 = UVINF-005

Sampled GCW-1 Inf K10002-0514-GCW-1-EFF
Sampled GCW-1 Eff K10002-0514-GCW-1-EFF

Temp – 46° Humidity – 53%

Wind – SE @ 10 Skys – Clear

Sample Event

5-5-2014

Time 0655 — Calibrated Scand Meter
PH = 7.0 = 6.8/7.0 Scand = 1409 = 1343/1409

ID	Time	PH	Temp	Scand	VOC's	Explosives	TSS	TOC
EW4 EFF	1030	6.92	14.7	510	~~3~~	2		
EW4 INF	1027	6.92	14.9	520	3	2	1	1
EW7 EFF	1103	7.05	15.3	545	~~3~~	2		
EW7 INF	1100	7.12	15.2	526	3	2	1	1
EW9 EFF	1053	6.94	14.4	568		2		
EW9 INF	1050	6.98	15.3	475	3	2	1	1
EW14 EFF	1023	6.97	14.1	529		2		
EW14 INF	1020	6.99	14.3	506	3	2	1	1
AOP EFF2	1040	6.90	15.0	707	3			
EW11 EFF	1012	7.11	13.3	718		2	1	1
EW11 INF	1009	7.19	14.6	706	3	2	~~1~~	~~1~~
GCW INF	0957	7.15	16.8	482	3			
GCW EFF	1000	7.25	15.0	484	3			

Samples Sent to GELC via Fedex
867536146266

Temp - 46° Humidity - 53%
Wind SE @ 10 Skies - Clear

Sample Event #103 COC# 0585201402

Time calibrated PH & Scond meter
0655 PH= 6.8/7.0 Scond - 1409 = 1343/1409

Sampled EW-12 - K10002-0514-EW-12-103
Sampled EW-17 - K10002-0514-EW-17-103
Sampled Influent - K10002-0514-LL1-INF-103
Sampled Effluent - K10002-0514-LL1-EFF-103
Sampled Effluent Air - K10002-0514-LL1-AIR-EFF

	Time	PH	Temp	Scond	VOC's	EXP	TSS	TOC
EW12	0736	7.02	15.4	589	3	2		
EW17	0738	6.84	13.4	582	3	2		
INF	0741	6.88	13.3	588	3	2	1	1
EFF	0745	8.0	13.6	564	3	2		
EFF Air	0751				1			

Temp - 46° Humidity - SE @ 10

Wind - 53% Skies - Clear

Sent to GELC via Fedex
8675 3604 6766

Sample Event #49

COC#0505201401

Time
0655 Calibrated PH & Scond meter
PH = 7.0 = 6.8/7.0 Scond = 1409 = 1343/1409

8 Sampled EWIR K10002-0514-EW-IR-049
8 Sampled EW15 K10002-0514-EW-15-049
Sampled Inf. K10002-0514-LL4-INF-049
Sampled Eff K10002-0514-LL4-EFF-049
Sampled Eff Air K10002-0514-LL4-AIR-EFF

	Time	PH	Temp	Scond	VOCs	EXP	TSS	TOC
INF	0802	7.1	14.2	703	3	2	1	1
EFF	0805	8.1	15.4	729	3	2		
EWIR	0920	7.11	13.2	634	3	2		
EW15	0950	7.04	15.9	619	3	2		
AIR	0810				1			

Temp 46° Wind SE @ 10

Humidity 53° Skies Clear

Shipped to GELC via Fedex

#8675 3614 8766

Hydro GeoLogic. Inc.
6340 Glenwood Suite 200 #7
Overland Park, KS 66202

Daily Chemical Quality Control Report

Field Team: Vince Stallbaumer / Jesse Phillips
Leader: _____
Report: _____
Date: May 5, 2014
Client: _____
Contract No: K10002
Report No. 005
Site: Mead NOP

Description and Location of Work: Sampled UV Systems EW-4, 7, 9 and 14

Weather Information:
Sky: Clear
Temp. Max/Min: 46 degrees
Precipitation: None
Wind Speed/Direction: SE @ 10
Humidity: 53%

Contractor/Subcontractor and Area of Responsibility: Sampled Site Extraction Well UV systems

Work Performed Today: Indicate location and description of work performed.

Time	Activity		pH	Temp	Scond
1030	Sampled Effluent	K10002-0514-EW4_UVEFF-005	6.92	14.7	510
	Effluent sample - 2 – 250 ml amber glass bottle – no preservative - explosives				
1027	Sampled Influent	K10002-0514-EW4_UVINF-005	6.92	14.9	520
	Influent sample - 2 –250 ml amber glass bottle – no preservative – explosives				
	3 – 40ml bottles – HCL – VOC's				
	1 – 1 liter Poly bottle – no preservative – TSS				
	1 – 250ml Amber glass bottle – H2SO4-TOC				
1103	Sampled Effluent	K10002-0514-EW7_UVEFF-005	7.05	15.3	545
	Effluent sample - 2 – 1 Liter amber glass bottle – no preservative - explosives				
1105	Sampled Influent	K10002-0514-EW7_UVINF-005	7.12	15.2	526
	Influent sample - 2 – 1 Liter amber glass bottle – no preservative - explosives				
	3 – 40ml bottles – HCL – VOC's				
	1 – 1 liter Poly bottle – no preservative - TSS				
	1 – 250ml Amber glass bottle – H2SO4-TOC				
1053	Sampled Effluent	K10002-0514-EW9_UVEFF-005	6.94	14.4	568
	Effluent sample - 2 – 1 Liter amber glass bottle – no preservative - explosives				
1050	Sampled Influent	K10002-0514-EW9_UVINF-005	6.98	15.3	475
	Influent sample - 2 – 1 Liter amber glass bottle – no preservative - explosives				
	3 – 40ml bottles –HCL – VOC'S				
	1 – 1 liter Poly bottle – no preservative - TSS				
	1 – 250ml Amber glass bottle – H2SO4-TOC				
1023	Sampled Effluent	K10002-0514-EW14_UVEFF-005	6.97	14.1	529
	Effluent sample - 2 – 250ml amber glass bottle – no preservative - explosives				

1020	Sampled Influent	K10002-0514-EW14_UVINF-005	6.99	14.3	506
	Influent sample - 2 – 1 Liter amber glass bottle – no preservative - explosives				
	3 – 40ml bottles –HCL – VOC'S				
	1 – 1 liter Poly bottle – no preservative - TSS				
	1 – 250ml Amber glass bottle – H2SO4-TOC				

Field Instrument Measurements: pH, S cond., Temp (degree C)

Calibration: Calibrate pH and S cond meters @ 0655

pH 7.0 = 6.8/7.0 S cond. 1409 = 1343/1409

Remarks: Samples shipped to GEL fedex 8675-3614-6766

Total Hours Worked: 5

Prepared by: (Signature) (Print) Vincent Stallbaumer

Chain of Custody's on file at the plant.

Hydro GeoLogic. Inc.
6340 Glenwood Suite 200 #7
Overland Park, KS 66202

Daily Chemical Quality Control Report

Field Team: Vince Stallbaumer / Jesse Phillips
Leader: _____
Report: _____
Date: May 5, 2014
Client: _____
Contract No: K10002
Report No. 159/005
Site: Mead NOP

Description and Location of Work: Sampled AOP/EW-11 UV system

Weather Information:
Sky: Clear
Temp. Max/Min: 46 degrees
Precipitation: None
Wind Speed/Direction: SE @ 10
Humidity: 53%

Contractor/Subcontractor and Area of Responsibility: Sampled AOP treatment plant and EW-11 UV system.

Work Performed Today: Indicate location and description of work performed.

Time	Activity	pH	Temp	Scond
0752	Sampled Effluent K10002-0514-EW-11_UVEFF-005	7.11	15.0	707
	Effluent samples - 2 – 250 ml amber glass bottle – no preservative – Explosives			
	1 – 1 liter Poly bottle – No Preservative - TSS			
	1 – 250ml Amber glass bottle – H2SO4 - TOC			
	Sampled Influent K10002-05140EW-11_UVINF-005	7.19	14.6	706
	Influent samples – 3 – 40ml bottles – HCL – VOC's			
	Influent samples - 2 – 250ml amber glass bottle – no preservative - Explosives			
0822	Sampled AOP Effluent K10002-0414-AOP-EFF2-159	6.90	15.0	707
	Effluent samples – 3 – 40ml bottles –HCL – VOC'S			

Field Instrument Measurements: pH, S cond., Temp (degree C)

Calibration: Calibrate pH and Scond meters @ 0655
pH 7.0 = 6.8/7.0 S cond. 1409 = 1343/1409

Remarks:

Samples Shipped to GEL via FedEx #8675-3614-6766

Total Hours Worked: 5

Prepared by: (Signature) _____ (Print) Vincent Stallbaumer

Chain of Custody's on file at the plant.

Hydro GeoLogic, Inc
6340 Glenwood Suite 200 #7
Overland Park, KS 66202

Daily Chemical Quality Control Report

Field Team: Vince Stallbaumer/Jesse Phillips
Report: _____
Client: _____
Report No. 49 .

Leader: _____
Date: May 5 ,2014 .
Contract No: K10002 .
Site: Mead NOP .

Description and Location of Work: Sampled LL4 Plant .

Weather Information:
Sky: Clear .
Precipitation: None .
Humidity: 53 % .

Temp. Max/Min: 46 degrees .
Wind Speed/Direction: SE @ 10 .

Contractor/Subcontractor and Area of Responsibility: Sampled Load Line 4 Treatment Plant, Extraction Well 1R And Extraction Well 15.

Work Performed Today: Indicate location and description of work performed.

Time	Activity		pH	Temp	Scond
0802	Sampled Influent	K10002-0514-LL4-INF -49	7.1	14.2	703
	Influent sample	3 – 40ml bottles –HCL – VOC'S			
0805	Sampled Effluent	K10002-0514-LL4-EFF -49	8.1	15.4	729
	Effluent sample	3 – 40ml bottles –HCL – VOC'S			
		2 - 250ml amber glass bottles – no preservative - explosives			
0920	Sampled EW-1R	K10002-0514-EW-1R-49	7.11	13.2	634
	Extraction Well Sample	3-40ml bottles –HCL-VOC's			
		2 -250ml amber glass bottles – no preservative - explosives			
0950	Sampled EW-15	K10002-0514-EW-15-49	7.04	15.9	619
	Extraction Well Sample	3-40ml bottles –HCL-VOC's			
		2 -250ml amber glass bottles – no preservative - explosives			

Field Instrument Measurements: pH, S cond., Temp (degree C)

Calibration: Calibrate pH and S cond meters @ 0655
pH 7.0 = 6.8/7.0 S cond. 1409 = 1343/1409

Remarks: Samples shipped to GEL via Fedex #8675-3614-6766

Total Hours Worked: 2

Prepared by: (Signature) _____ (Print) Vincent Stallbaumer

Chain of Custody's on file at the plant.

Hydro GeoLogic, Inc
6340 Glenwood Suite 200 #7
Overland Park, KS 66202

Daily Chemical Quality Control Report

Field Team: Vince Stallbaumer/Jesse Phillips
Leader: _____
Report: _____
Date: May 5 ,2014 .
Client: _____
Contract No: K10002 .
Report No. 103 .
Site: Mead NOP .

Description and Location of Work: Sampled LL1 Plant .

Weather Information:
Sky: Clear .
Temp. Max/Min: 46 degrees .
Precipitation: None .
Wind Speed/Direction: SE @ 10 .
Humidity: 53 % .

Contractor/Subcontractor and Area of Responsibility: Sampled Load Line 1 Treatment Plant, Extraction Well 12 And Extraction Well 17.

Work Performed Today: Indicate location and description of work performed.

Time	Activity		pH	Temp	Scond
0802	Sampled Influent	K10002-0514-LL1-INF -103	6.88	13.3	588
	Influent sample	3 – 40ml bottles –HCL – VOC'S			
0805	Sampled Effluent	K10002-0514-LL1-EFF -103	8.0	13.6	564
	Effluent sample	3 – 40ml bottles –HCL – VOC'S			
		2 - 250ml amber glass bottles – no preservative - explosives			
0736	Sampled EW-12	K10002-0514-EW-12-103	7.02	15.4	589
	Extraction Well Sample	3-40ml bottles –HCL-VOC's			
		2 -250ml amber glass bottles – no preservative - explosives			
0738	Sampled EW-17	K10002-0514-EW-17-103	6.84	13.4	582
	Extraction Well Sample	3-40ml bottles –HCL-VOC's			
		2 -250ml amber glass bottles – no preservative - explosives			

Field Instrument Measurements: pH, S cond., Temp (degree C)

Calibration: Calibrate pH and S cond meters @ 0655
pH 7.0 = 6.8/7.0 S cond. 1409 = 1343/1409

Remarks: Samples shipped to GEL via Fedex #8675-3614-6766

Total Hours Worked: 2

Prepared by: (Signature) _____ (Print) Vincent Stallbaumer

Chain of Custody's on file at the plant.

Hydro GeoLogic. Inc.
6340 Glenwood Suite 200 #7
Overland Park, KS 66202

Daily Chemical Quality Control Report

Field Team: Vince Stallbaumer / Jesse Phillips
Leader: _____
Report: _____
Date: May 5, 2014
Client: _____
Contract No: K10002
Report No. 052014 GCW-1
Site: Mead NOP

Description and Location of Work: Sampled GCW-1 Treatment System

Weather Information:
Sky: Clear
Temp. Max/Min: 46 degrees
Precipitation: None
Wind Speed/Direction: SE @10
Humidity: 53%

Contractor/Subcontractor and Area of Responsibility: Sampled GCW-1 Treatment System

Work Performed Today: Indicate location and description of work performed.

Time	Activity	pH	Temp	Scond
0957	Sampled GCW1 Influent K10002-0214-GCW1-EFF-156	7.15	16.8	482
	Influent samples – 3 – 40ml bottles –HCL – VOC'S			
1000	Sampled GCW1 Effluent K10002-0214-GCW1-EFF-156	7.95	15.0	484
	Effluent samples– 3 – 40ml bottles –HCL – VOC'S			

Field Instrument Measurements: 0655 pH, S cond., Temp (degree C)

Calibration: Calibrate pH and S cond meters
pH 7.0 = 6.8 /7.0 S cond. 1409 = 1343/1409

Remarks: All effluent VOC's were sampled with method #624
Samples shipped to GEL fedex #8675-3614-6766

Total Hours Worked: 5

Prepared by: (Signature) _____ (Print) Vincent Stallbaumer

Chain of Custody's on file at the plant.

Hydro GeoLogic. Inc.
6340 Glenwood Suite 200 #7
Overland Park, KS 66202

Daily Chemical Quality Control Report

Field Team: Vince Stallbaumer / Jesse Phillips
Leader: _____
Report: _____
Date: May 5, 2014
Client: _____
Contract No: K10002
Report No. EFF Air
Site: Mead NOP

Description and Location of Work: Sampled Air @ LL-1/LL-4 Treatment plants

Weather Information:
Sky: Clear
Temp. Max/Min: 46 degrees
Precipitation: None
Wind Speed/Direction: SE @10
Humidity: 53%

Contractor/Subcontractor and Area of Responsibility: Sampled GCW-1 Treatment System

Work Performed Today: Indicate location and description of work performed.

Time	Activity	pH	Temp	Scond
0751	Sampled LL-1 Effluent Air K10002-0514-LL-1-AIR-EFF			
	Influent samples – 1 SUMA Canister			
0810	Sampled LL-4 Effluent Air K10002-0514-LL-4-AIR			
	Effluent samples– 1 SUMA Canister			

Field Instrument Measurements: 0655 pH, S cond., Temp (degree C)

Calibration: Calibrate pH and S cond meters
pH 7.0 = 6.8 /7.0 S cond. 1409 = 1343/1409

Remarks: Samples shipped to RIT Laboratory FedEx # 8675-3614-6777

Total Hours Worked: 5

Prepared by: (Signature) _____ (Print) Vincent Stallbaumer

Chain of Custody's on file at the plant.

Hydro GeoLogic. Inc.
6340 Glenwood Suite 200 #7
Overland Park, KS 66202

Daily Chemical Quality Control Report

Field Team: Vince Stallbaumer / Jesse Phillips
Leader: _____
Report: _____
Date: May 8, 2014
Client: _____
Contract No: K10002
Report No. 052014 WC
Site: Mead NOP

Description and Location of Work: Sampled Wahoo Creek Outfall

Weather Information:
Sky: Clear
Temp. Max/Min: 74 degrees
Precipitation: None
Wind Speed/Direction: SE @6
Humidity: 64%

Contractor/Subcontractor and Area of Responsibility: Sampled Wahoo Creek Outfall

Work Performed Today: Indicate location and description of work performed.

Time	Activity	pH	Temp	Scond
1355	Sampled GCW1 Influent K10002-0514-WC-EFF	7.41	18.6	589
	Effluent samples – 3 – 40ml bottles –HCL – VOC'S			
	2 – 250ml amber bottles – no preservative - explosives			

Field Instrument Measurements: 1310 pH, S cond., Temp (degree C)

Calibration: Calibrate pH and S cond meters
pH 7.0 = 7.0/7.0 S cond. 1409 = 1410/1409

Remarks: All effluent VOC's were sampled with method #624
Samples shipped to GEL fedex #8675-3614-6814

Total Hours Worked: 1

Prepared by: (Signature) _____ (Print) Vincent Stallbaumer

Chain of Custody's on file at the plant.

Hydro GeoLogic. Inc.
6340 Glenwood Suite 200 #7
Overland Park, KS 66202

Daily Chemical Quality Control Report

Field Team: Vince Stallbaumer / Jesse Phillips
Report: _____
Client: _____
Report No. 052014 CC.

Leader: _____
Date: May 14, 2014.
Contract No: K10002.
Site: Mead NOP.

Description and Location of Work: Sampled Clear Creek Outfall.

Weather Information:
Sky: Clear.
Precipitation: None.
Humidity: 63%.

Temp. Max/Min: 80 degrees.
Wind Speed/Direction: SE @15.

Contractor/Subcontractor and Area of Responsibility: Sampled Clear Creek Outfall

Work Performed Today: Indicate location and description of work performed.

Time	Activity	pH	Temp	Scond
1355	Sampled Clear Creek Outfall K10002-0514-CC-EFF	7.23	16.4	507
	Effluent samples – 3 – 40ml bottles –HCL – VOC'S			
	2 – 250ml amber bottles – no preservative - explosives			

Field Instrument Measurements: 1030 pH, S cond., Temp (degree C)

Calibration: Calibrate pH and S cond meters
pH 7.0 = 7.1/7.0 S cond. 1409 = 1406/1409

Remarks: All effluent VOC's were sampled with method #624
Samples shipped to GEL fedex #8675-3614-6814

Total Hours Worked: 1

Prepared by: (Signature) _____ (Print) Vincent Stallbaumer

Chain of Custody's on file at the plant.

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	349930 June 2014 O&M	**Work Order Due Date:**	25-JUN-14	**Collector:**	C
SDG:	349930	**Package Due Date:**	22-JUN-14	**Prelogin #:**	20140516210
Project Manager:	Joanne Harley	**EDD Due Date:**	24-JUN-14	**Project ID:**	1333977
Project Name:	HGLG00004			**SDG Status:**	Closed
	Project #K10002, Mead (K10G)			**Logged By:**	JOH1
Purchase Order:	2013-00494				
Package Level:	LEVEL4				
EDD Name:	ERPIMS_ITSI_2_HGLG	**Days to Process:**	15		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		349930001	K10002-0614-WC-EFF		03-JUN-14 07:30	04-JUN-14 08:55	GROUND WATER	0603201405	5			
3		349930002	K10002-0614-AOP-EFF2-078		03-JUN-14 07:50	04-JUN-14 08:55	GROUND WATER	0603201401	3			
4		349930003	K10002-0614-FEW-11_UVEFF-078		03-JUN-14 08:03	04-JUN-14 08:55	GROUND WATER	0603201401	2			
1		349930004	K10002-0614-FEW-11_UVINF-078		03-JUN-14 08:00	04-JUN-14 08:55	GROUND WATER	0603201401	5			
3		349930005	K10002-0614-LL4-EFF-050		03-JUN-14 09:07	04-JUN-14 08:55	GROUND WATER	0603201404	3			
3		349930006	K10002-0614-LL4-INF-050		03-JUN-14 09:05	04-JUN-14 08:55	GROUND WATER	0603201404	3			
3		349930007	K10002-0614-EW-12-104		03-JUN-14 07:15	04-JUN-14 08:55	GROUND WATER	0603201403	3			
3		349930008	K10002-0614-EW-17-104		03-JUN-14 07:18	04-JUN-14 08:55	GROUND WATER	0603201403	3			
3	F	349930009	TRB-LL1-2EW12-062014		03-JUN-14 07:15	04-JUN-14 08:55	GROUND WATER	0603201403	3			
3		349930010	K10002-0614-LL1-EFF-104		03-JUN-14 07:22	04-JUN-14 08:55	GROUND WATER	0603201403	3			
3		349930011	K10002-0614-LL1-INF-104		03-JUN-14 07:20	04-JUN-14 08:55	GROUND WATER	0603201403	3			
4		349930012	K10002-0614-EW-4_UVEFF-006		03-JUN-14 08:12	04-JUN-14 08:55	GROUND WATER	0603201402	2			
4		349930013	K10002-0614-EW-7_UVEFF-006		03-JUN-14 08:55	04-JUN-14 08:55	GROUND WATER	0603201402	2			
4		349930014	K10002-0614-EW-9_UVEFF-006		03-JUN-14 08:44	04-JUN-14 08:55	GROUND WATER	0603201402	2			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
4		349930015	K10002-0614-FEW-14_UVEFF-006		03-JUN-14 08:07	04-JUN-14 08:55	GROUND WATER	0603201402	2			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	SW846 8330B Explosives by LCMSMS LCMSMS Explosives 250ml vol Path 2	Volatiles by SW846 8260B Volatiles Path 1
349930001	K10002-0614-WC-EFF	N	N
349930002	K10002-0614-AOP-EFF2-078		N
349930003	K10002-0614-FEW-11_UVEFF-078	N	
349930004	K10002-0614-FEW-11_UVINF-078	N	N
349930005	K10002-0614-LL4-EFF-050		N
349930006	K10002-0614-LL4-INF-050		N
349930007	K10002-0614-EW-12-104		N
349930008	K10002-0614-EW-17-104		N
349930009	TRB-LL1-2EW12-062014		N
349930010	K10002-0614-LL1-EFF-104		N
349930011	K10002-0614-LL1-INF-104		N
349930012	K10002-0614-EW-4_UVEFF-006	N	
349930013	K10002-0614-EW-7_UVEFF-006	N	
349930014	K10002-0614-EW-9_UVEFF-006	N	
349930015	K10002-0614-FEW-14_UVEFF-006	N	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 349930 **Client SDG:** 349930

GEL ID:	**349930001**	**349930002**	**349930003**	**349930004**	**349930005**	**349930006**	**349930007**	**349930008**
Client Sample ID:	K10002-0614-WC-EFF	K10002-0614-AOP-EFF2-078	K10002-0614-FEW-11_UVEFF-078	K10002-0614-FEW-11_UVINF-078	K10002-0614-LL4-EFF-050	K10002-0614-LL4-INF-050	K10002-0614-EW-12-104	K10002-0614-EW-17-104
Client Matrix	WG	WG	WG	WG	WG	WG	WG	WG
Cooler Seal Undisturbed	y	y	y	y	y	y	y	y
Temperature (C)	2	2	2	2	2	2	2	2

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 349930 **Client SDG:** 349930

GEL ID:	**349930009**	**349930010**	**349930011**	**349930012**	**349930013**	**349930014**	**349930015**
Client Sample ID:	TRB-LL1-2EW12-062014	K10002-0614-LL1-EFF-104	K10002-0614-LL1-INF-104	K10002-0614-EW-4_UVEFF-006	K10002-0614-EW-7_UVEFF-006	K10002-0614-EW-9_UVEFF-006	K10002-0614-FEW-14_UVEFF-006
Client Matrix	WQ	WG	WG	WG	WG	WG	WG
Cooler Seal Undisturbed	y	y	y	y	y	y	y
Temperature (C)	2	2	2	2	2	2	2

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 349930 **Report Date: 09 JUN 2014**

Product: LCMX30B_L **Workdef ID:** 1337038 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
SW846 8330B Explosives by LCMSMS

Method: SW846 3535A/8330B Low Level **Path:** HGL specific
Product Reference: 250ml vol
Samples: 001, 003, 004, 012, 013, 014, 015 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
99-35-4	1,3,5-Trinitrobenzene		ug/L	REG	Y	Y	No
54247-05-1	1,3-Dinitrobenzene-d4		ug/L	IS	Y	Y	
118-96-7	2,4,6-Trinitrotoluene		ug/L	REG	Y	Y	
121-14-2	2,4-Dinitrotoluene		ug/L	REG	Y	Y	
93951-90-7	2,6-Dinitrotoluene-d3		ug/L	IS	Y	Y	
35572-78-2	2-Amino-4,6-dinitrotoluene		ug/L	REG	Y	Y	
610-39-9	3,4-Dinitrotoluene		ug/L	SURR	Y	Y	
19406-51-0	4-Amino-2,6-dinitrotoluene		ug/L	REG	Y	Y	
121-82-4	RDX		ug/L	REG	Y	Y	

Product: VOA8260BL **Workdef ID:** 1335014 **In Product Group?** No **Group Name:** N/A **Group Reference:** N/A
Volatiles by SW846 8260B

Method: **Path:** Standard
Product Reference:
Samples: 001, 002, 004, 005, 006, 007, 008, 009, 010, 011 **Moisture Correction:** "As Received"
Parmname Check: All parmnames scheduled properly **Status:** NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
17060-07-0	1,2-Dichloroethane-d4		ug/L	SURR	Y	Y	No
78-87-5	1,2-Dichloropropane		ug/L	REG	Y	Y	
3855-82-1	1,4-Dichlorobenzene-d4		ug/L	IS	Y	Y	
460-00-4	Bromofluorobenzene		ug/L	SURR	Y	Y	
3114-55-4	Chlorobenzene-d5		ug/L	IS	Y	Y	
462-06-6	Fluorobenzene		ug/L	IS	Y	Y	
75-09-2	Methylene chloride		ug/L	REG	Y	Y	
2037-26-5	Toluene-d8		ug/L	SURR	Y	Y	
79-01-6	Trichloroethylene		ug/L	REG	Y	Y	
75-01-4	Vinyl chloride		ug/L	REG	Y	Y	
156-59-2	cis-1,2-Dichloroethylene		ug/L	REG	Y	Y	
156-60-5	trans-1,2-Dichloroethylene		ug/L	REG	Y	Y	

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Login Requirements:

Requirement	Include?	Comments
Letters in client IDs should be all in CAPS- EFF not Eff.	Y	
Login Reminder?	Y	Enter sub-category on wo screen: Monitoring Well, Water Supply Wells, or O&M Monitoring
PLEASE CHECK TAT!	Y	Events which contain O&M are X015. Events which contain quarterly are X010. Others default to X015.
Sample Description?	Y	Enter Event from COC in sample description. EDD requires info to load.

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0603201405

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

349930

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water

Code	Container/Preservative
1	2* 40 mL VOA VIAL, 4 Degrees C

	Sample ID	Matrix	Date	Time	Samp Init.	E624 - VOCs by E624	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
	Event: June 2014 O&M					1	1					
1	K10002-0614-WC-EFF	WG	6/3/2014	0730		X	X	WAHOOCREEK	N1	0.00	0.00	
Cooler # 1		**Turnaround Time:**										

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/3/2014	1600

Received by: *(Signature)*	**Date**	**Time**
Fedex 8675 3614 6788	5/3/14	1600
[signature]	6-4-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0603201401

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment:

Analytical Test Method

Code	Matrix
WG	Ground Water

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: June 2014 O&M

	Sample ID	Matrix	Date	Time	Samp Init.	SW8260B - VOCs: 6 Compounds	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
							1					
1	K10002-0614-AOP-EFF2-078	WG	6/3/2014	0750		X		AOP-EFF	N1	0.00	0.00	
2	K10002-0614-FEW-11_UVEFF-078	WG	6/3/2014	0803			X	FEW-11_UVEFF	N1	0.00	0.00	
3	K10002-0614-FEW-11_UVINF-078	WG	6/3/2014	0800		X	X	FEW-11_UVINF	N1	0.00	0.00	

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/3/2014	1600

Received by: *(Signature)*	**Date**	**Time**
Fedex # 8675 3614 6788	5/3/14	1600
[signature]	6-4-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0603201404

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment:

Analytical Test Method: SW8260B - VOCs: 6 Compounds

Code	Matrix
WG	Ground Water

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,

Event: June 2014 O&M

	Sample ID	Matrix	Date	Time	Samp Init.		Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
1	K10002-0614-LL4-EFF-050	WG	6/3/2014	0907		X	LL4-EFF	N1	0.00	0.00	
2	K10002-0614-LL4-INF-050	WG	6/3/2014	0905		X	LL4-INF	N1	0.00	0.00	
Cooler # 1		**Turnaround Time:**									

Relinquished by: *(Signature)*	**Date**	**Time**
[signature]	5/3/2014	1600

Received by: *(Signature)*	**Date**	**Time**
Fedex 8675 3614 6788	5/3/14	1600
[signature]	6-4-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0603201403

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407

Comments:

Equipment:

Analytical Test Method: SW8260B - VOCs: 6 Compounds

Code	Matrix
WG	Ground Water
WQ	WATER QUALITY CONTROL MATRIX

Code	Container/Preservative
	3* 3 X 40 mL glass VOC vials w/Teflon-lined septa cap with no headspace,

Event: June 2014 O&M

	Sample ID	Matrix	Date	Time	Samp Init.		Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
1	K10002-0614-EW-12-104	WG	6/3/2014	0715		X	EW-12	N1	60.50	90.50	
2	K10002-0614-EW-17-104	WG	6/3/2014	0718		X	EW-17	N1	0.00	0.00	
3	TRB-LL1-2EW12-062014	WQ	6/3/2014	0715		X	FIELDQC	TB1	0.00	0.00	
4	K10002-0614-LL1-EFF-104	WG	6/3/2014	0722		X	LL1-EFF	N1	0.00	0.00	
5	K10002-0614-LL1-INF-104	WG	6/3/2014	0720		X	LL1-INF	N1	0.00	0.00	

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
[signature]	5/3/2014	1600

Received by: *(Signature)*	Date	Time
Fedex 8675 3614 6788	5/3/14	1600
[signature]	6-4-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* **& condition**

CHAIN-OF-CUSTODY RECORD

HGL
Lisa Tholl
6340 Glenwood Street, Building 7, Suite 200
(913) 317-8860, ltholl@hgl.com

COC # 0603201402

HGL HydroGeoLogic, Inc. Accurate. Innovative. Sustainable.

Project Name: Former Nebraska Ordnance Plant	Laboratory: General Engineering Labs, Charleston, SC	
Project Number: FNOP01	POC: Joanne Harley 843-769-7387 joanne.harley@gel.com	
WBS Code:	Ship to: 2040 Savage Road, Charleston, SC 29407	

Comments:

Equipment:

Analytical Test Method: SW8330 - Explosives: 6 Compounds

Code	Matrix
WG	Ground Water

Code	Container/Preservative
1	2* 2 X 250 mL Amber Glass Bottles, 4 Degrees C

Event: June 2014 O&M

	Sample ID	Matrix	Date	Time	Samp Init.	SW8330 - Explosives: 6 Compounds	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Comments
1	K10002-0614-EW-4_UVEFF-006	WG	6/3/2014	0812		X	EW-4_UVEFF	N1	0.00	0.00	
2	K10002-0614-EW-7_UVEFF-006	WG	6/3/2014	0855		X	EW-7_UVEFF	N1	0.00	0.00	
3	K10002-0614-EW-9_UVEFF-006	WG	6/3/2014	0844		X	EW-9_UVEFF	N1	0.00	0.00	
4	K10002-0614-FEW-14_UVEFF-006	WG	6/3/2014	0807		X	FEW-14_UVEFF	N1	0.00	0.00	

Cooler # 1 **Turnaround Time:**

Relinquished by: *(Signature)*	Date	Time
[signature]	5/3/2014	1600

Received by: *(Signature)*	Date	Time
Fedex # 8675 3614 6788	5/3/14	1600
[signature]	6-4-14	0855

Shipping Date / Carrier / Airbill Number

Recevied by Laboratory: *(Signature, Date, Time)* & condition

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: HGLG	**SDG/AR/COC/Work Order:** 349930
Received By: JP	**Date Received:** 6-4-14

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Ice bags) Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 2
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 130462941 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?				
4	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?				Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?				Sample ID's and containers affected:
7	Are Encore containers present?				(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Sample ID's affected:
11	Number of containers received match number indicated on COC?				Sample ID's affected:
12	Are sample containers identifiable as GEL provided?				
13	COC form is properly signed in relinquished/received sections?				
14	Carrier and tracking number.				Circle Applicable: (FedEx Air) FedEx Ground UPS Field Services Courier Other 8675 3614 6788

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JP Date 6-4-14 Page 1 of 1

AOP-COC# 0603201401
UW-COC# 0603201402

Sample Event

Time — Calibrated PH + Cond Meter

0685 — PH 7.0 = 6.7/7.0 Scond = 1409 = 1494/1409

Sampled EW-4 UW Eff - K10002-0614-EW-4_UWEFF-006
Sampled EW-7 UW Eff - K10002-0614-EW-7_UWEFF-006
Sampled EW-9 UW Eff - K10002-0614-EW-9_UWEFF-006
Sampled FEW-14 UW Eff - K10002-0614-FEW-14_UWEFF-006

Sampled AOP Effluent 2 - K10002-0614-AOP-EFF2-078
Sampled FEW-11 Eff - K10002-0614-FEW-11_UWEFF-078
Sampled FEW-11 Inf - K10002-0614-FEW-11_UWEFF-078
Sampled Wahoo Creek - K10002-0614-WC-EFF

ID	Time	PH	Temp	Scond	Vac's	Expl.
EW-4 Eff	0812	6.98	14.9	473		2
EW-7 Eff	0855	7.19	15.0	473		2
EW-9 Eff	0844	7.00	15.1	428		2
FEW-14 Eff	0807	6.97	13.9	427		2
AOP Eff2	0250	7.0	15.1	681	3	
FEW-11 Eff	0803	7.18	13.6	658	3	
FEW-11 Inf	0800	7.35	13.8	659	3	2
Wahoo Creek	0730	7.38	14.6	585	3	2

Wind - SE@7 Temp - 67° Sky - Clear
Humidity - 59%

Shipped To GEL Via Fedex #8675 3614 6788

6-3-2014 COC# 0603201403

Sample Event # 104

Time Calibrated PH + Sound Meter
0625 PH-7.0 = 6.7/7.0 Sound - 1409 - 1494/1409

Sampled EW-12 - K10002 - 0614 - EW-12 - 104
Sampled EW-17 - K10002 - 0614 - EW-17 - 104
Sampled LL1 INF - K10002 - 0614 - LL1 - INF-104
Sampled LL1 EFF - K10002 - 0614 - LL1 - EFF-104

	Time	PH	Temp	Sound	VOC's
EW12	0715	7.07	14.5	523	3
EW17	0718	6.89	13.3	537	3
INF	0720	6.95	12.9	538	3
EFF	0722	8.07	13.4	538	3

Temp - 67°F wind - SE @ 7 mph
Humidity - 59% Sky's - Clear

Shipped to GELC via Fedex # 8675 3614 6788

6-3-2014 COC= 0603201409

Sample Event #50

Time 0625 Calibrated PH + Scond Meters
PH= 7.0 = 6.7/7.0 Scond = 1409 = 1494/1409

Sampled LLY INF - K10002-0614-LLY-EFF
Sampled LLY EFF - K10002-0614-LLY-INF

ID	Time	PH	Temp	Scond	VOCs
INF	905	7.11	15.0	637	3
EFF	907	8.09	13.9	644	3

Temp - 67° Sky's clear
Humidity 59% wind SE@7

Shipped to GELC via Fedex #8675 3614 678

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APPENDIX B

REFERENCE SHEET
DATA VALIDATION QUALIFIERS
DRINKING WATER STANDARDS

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DATA VALIDATION QUALIFIERS
AND
DRINKING WATER STANDARDS REFERENCE SHEET
FORMER NEBRASKA ORDNANCE PLANT, MEAD, NEBRASKA

Any qualifiers (U, J, or R) listed after a result are assigned during the data validation process. Data validation is a procedure that involves the review of quality control (QC) data provided by the laboratory. This review is followed by the assignment of data qualifiers (if necessary) which indicate the reliability of a result to the reader. Data validation is performed by the automated data review (ADR) program set up by Synectics for this project. A description of qualifiers is provided below.

No qualifier - If a result has no assigned qualifier, the contaminant was detected, and the data user can be confident that the concentration is exact.

U - A result followed by a "U" qualifier means that the contaminant was undetected, or not detected by the instrument.

UJ - A result followed by a "UJ" qualifier means that the contaminant was not detected, but the associated detection level is not certain (estimated). For example, if a value is followed by a "UJ", the contaminant was not detected, but the associated detection level is in question. The detection level is in question because one or more of the laboratory quality control indicators do not meet acceptance criteria. The amount that the indicator fell outside of the criteria may be used as a rough estimate of how much the actual detection level differs from the stated one. Typically, this is a 10 to 30 percent difference.

J - A result followed by only a "J" qualifier means that the contaminant was detected, but there is some question that the stated concentration is exact. For example, if a result is "0.5J", the contaminant was detected, but there is some question that the concentration is exactly 0.5. A "J" qualifier may be applied for two reasons: (1) the contaminant was detected below the reporting limit; or (2) the contaminant was detected, but one or more QC indicators did not meet acceptance criteria. The reporting limit is equal to the concentration of the lowest standard used by the laboratory to calibrate the instrument. The reporting limit is the minimum concentration that can be stated with complete confidence.

R - A result followed by an "R" qualifier indicates that the result (detection or nondetection) is rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. An "R" qualifier may be applied if, either the contaminant was detected, but there is strong doubt that the concentration is exact, or the contaminant was not detected, but there is strong doubt that the associated detection level is accurate. Example 1 (not detected), the contaminant was not detected, but the associated detection level is in strong doubt. The detection level is in doubt because results are unacceptable for a quality control indicator. In this case, the detection level cannot be estimated. Example 2 (detected), if a result is "0.5 R", the contaminant was detected, but there is strong doubt that the concentration is exactly 0.5. The concentration is in doubt because results are unacceptable for a QC indicator. In this

case, the detected concentration cannot be estimated. The "R" qualified results are not to be used for any decision-making purposes, and are not reported.

MCL - The maximum contaminant level (MCL) is the highest concentration of a contaminant that is allowed in drinking water. MCLs are enforceable Federal standards.

HA - Health advisory (HA) levels provide estimates of acceptable drinking water concentrations for a chemical substance based on health effects information. HAs are not enforceable Federal standards, but serve as a technical guidance to assist Federal, State, and local officials.

APPENDIX C

ANALYTICAL RESULTS ON CD
SUMMARY FORMS AND RAW DATA

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