Loudoun County, Virginia
www.loudoun.gov
Department of Finance and Budget
Division of Procurement
P.O. Box 7000, Leesburg, Virginia 20177
Physical Address: 1 Harrison Street, S.E., 4th Floor, Leesburg, Virginia 20175

April 14, 2021

NOTICE TO BIDDERS

ADDENDUM NO. 1

RFQ 376783

The following changes and/or additions shall be made to the original Request for Proposal (RFP) No. RFQ 376783, GROUNDWATER, SURFACE WATER AND LANDFILL LEACHATE SAMPLING AND ANALYTICAL SERVICES

Please acknowledge receipt of this addendum by signing and returning with your bid.

1. Questions and Answers
2. The following Attachments shall be added to the RFP.
   A. Attachment 1 – Groundwater Monitoring Plan, LCSWMF
   B. Attachment 2 – Chapter 1080 Surface Water Monitoring Plan, LCSWMF
   C. Attachment 3 – Example of Groundwater Analytical Result EDD
   D. Attachment 4 – Example of Leachate Analytical Result EDD
   E. Attachment 5 – Example of Quarterly Chapter 1080 Surface Analytical Result EDD
   F. Attachment 6 – Example of Semiannual VPDES Surface Water Analytical Result EDD
   G. Attachment 7 – Photo of Geotech Wellhead Seal for 2” Redi-Flo Pump & Controller

Prepared By: /s/ Gerald Landayan Date: April 14, 2021

Acknowledged By:_____ Date: _____

Questions and Answers

1. For the above-reference RFP, we understand that measurements of pH, specific conductivity, temperature, ORP, DO, and turbidity need to be recorded for groundwater sampling. However, do the wells specifically need to be purged using low-flow methods (i.e., collecting the sample only after measurements of the aforementioned parameters have stabilized) or is it acceptable to purge 3 well volumes but make one recording of the parameters at the time of sample collection?
   - *All wells are equipped with dedicated 2" Redi-Flo variable speed pumps. Purge rate should be set at a rate not to draw down the water column. A few of the wells dry up, but usually we can get 3 wells volumes before they dry up, or close to it.*
     Water Quality readings should be taken:
     - *Initially, prior to any purging.*
     - *Additional readings at each well volume*
     - *At the completion of purging and start of sampling*
     - *Or just prior to sampling if there is a delay between purging and sampling*

2. Do all the monitoring wells need to have their depth-to-water level measurements made on the same day (i.e., a synoptic round of measurements), or can they be collected across 2-3 days?
   - *Depth of water for all the monitoring wells need to be collected on the same day, within a 24 hour period.*

3. To operate the dedicated Grundfos pump, the Consultant will have to bring a generator and control unit to each well location, is that correct?
   - *Yes, that is correct.*

4. If the generator is required to sample each monitoring well, are there any monitoring well locations that cannot be accessed with a 4WD pickup truck?
   - *No, all monitoring wells <u>can</u> be accessed with a 4WD truck.*

5. Is any special equipment needed to collect any of the surface water samples, such as waders or a pole with a dip cup?
   - *A sample pitcher or a dipping cup with a pole is typically what we use.*

6. . Please provide the documents indicated as attachments in the RFP but were not. Also, please provide an extension of 30 days after the attachments are provided. Documents indicated as attachments that were not provided:
   a. Groundwater Monitoring Plan
   b. Surface Water Monitoring Plan
   c. Example of required excel spreadsheet format

   - *Above monitoring plans and EDD Excel spreadsheet formats will be posted to the website as an addendum.*
   - *<u>No 30-day</u> extension will be provided.*

7. Please provide a copy of the Presumptive Remedy Monitoring Plan.
   - *Presumptive Remedy Plan is in the process of being updated, plan is not available.*

8. Please clarify/specify the "QA/QC reporting" called out under Groundwater in Section 3.0. Is this a reporting of QA/QC data only?
   - *Correct, this is for lab data QA/QC data only reporting. As stated in Section 3.0 a third party under a separate contract does the semiannual and annual groundwater reports. See Section 5.7.*

9. Please verify that "QA/QC reporting" is due 5 calendar days (potentially 2or 3 workdays) after submittal of the laboratory results.
   - *Yes, QA/QC reporting is due 5 days after submittal of the laboratory results.*

10. Please clarify if the County has a controller for the submersible pumps that is to be used, of if the contractor is responsible for supply of the controller.
    a. If the contractor is responsible for supplying the controller, please identify the model that is compatible and confirm that the control connections at the well head are the Grundfos-specific connector.

       - *The Contractor is responsible for providing a Redi-Flo 2 controller for purging and sampling, see Section 5.4. The dedicated pumps are Redi-Flo 2 pumps. The controller, connections, and wellheads are all Redi-Flo 2 compatible. A photo of the controller and serial number, and the wellhead are included in the addendum/attachments to the RFP.*

11. Please confirm that no matrix spike/matrix spike duplicates are required.
    - *The current Lab handling our analytical always runs matrix spike/matrix spike duplicates, so yes they are required.*

12. Confirm that Task 3. D, titled "Special well analysis (see Table V)" is the "special landfill gas (LFG) parameters" called out in Section 5.6 and note 2 of Table I.
    - *Correct, Task 3. D, titled "Special well analysis (see Table V)" is the "special landfill gas (LFG) parameters" called out in Section 5.6 and note 2 of Table I.*

13. It appears that only one set of QA/QC samples are required for one event per the description on the pricing sheet: "The pricing looks good, however it's not a simple apples-to-apples comparison. We have pricing that includes activities we did not request, others with exclusions, others that make statements about the way the work will be done that's not permitted, your pricing reads like an estimate not a FFP." Please specify if QA/QC samples are to be collected during the 1st or 2nd event or modify the cost sheet to reflect the number of QA/QC samples to be collected.
    - *Four QA/QC samples are to be collected and analyzed at both the 1st and 2nd semiannual sampling events. This is bidding sheet, use the "No. of Units" as specified on the bidding sheet. Cost estimates and wells to be sampled for each semiannual sampling event will be prepared for submittal for a purchase order for each sampling event.*

Attachment 1

Groundwater Monitoring Plan, LCSWMF

Groundwater Monitoring Plan

Loudoun County Solid Waste Management Facility Permit No. 1
Permit Modification No. 15

Prepared for:

The County of Loudoun, Virginia

July 28, 2014; Permit Mod. No. 13
Revised February 18, 2020; Permit Mod. No. 15

prepared by:
SWS
Reston, Virginia

GROUNDWATER MONITORING PLAN

Loudoun County Solid Waste Management Facility
Permit No. 1; Permit Modification No. 15

This document has been prepared under the direction of a Licensed Professional Engineer

Table of Contents

Figures

Tables

Appendices

Acronyms

CAP	Corrective Action Plan
CP	Closure Plan
CDD	Construction and Demolition Debris
CQAP	Construction Quality Assurance Plan
DEQ	Department of Environmental Quality, Virginia
DR	Design Report
EPA/USEPA	United States Environmental Protection Agency
GPM	Gallons per minute
GWMP	Groundwater Management Plan
GWMS	Groundwater Management System
GWPS	Groundwater Protection Standard
HDPE	High-density polyethylene
K	Permeability/hydraulic conductivity
LCLF	Loudoun County Landfill
LCLFDU	Loudoun County Landfill Disposal Unit
LCSWMF	Loudoun County Solid Waste Management Facility
LFG	Landfill gas
LFGMP	Landfill Gas Management Plan
LMP	Leachate Management Plan
LMS	Leachate Management System
LOD	Limit of Detection
LOQ	Limit of Quantitation
OM	Operations Manual
OSWM	Office of Solid Waste Management (historical reference)
PCCP	Post-Closure Care Plan
PRMP	Presumptive Remedy Monitoring Plan
PVC	Poly-vinyl chloride
ROP	Reclamation Operating Plan
SOP	Standard Operating Procedure
USGS	United States Geological Survey
VAC	Virginia Annotated Code
VSWMR	Virginia Solid Waste Management Regulations
WRDU	Woods Road Disposal Unit

Revisions

This document is submitted as part of Permit Modification No. 15 to Permit No. 1. As revisions become necessary, affected pages will be modified and those pages will have a revised date in the header and will be listed below.

Page Number	Revision Description	Date Revised

I. INTRODUCTION

This Groundwater Monitoring Plan (GWMP) has been prepared by Solid Waste Services, LLC (SWS) of Reston, Virginia and Draper Aden Associates of Richmond, Virginia on behalf of the County of Loudoun, Department of General Services, Waste Management Division (County).

The GWMP provides a detailed description of the groundwater monitoring system and procedures for groundwater monitoring at the Loudoun County Solid Waste Management Facility (LCSWMF), to demonstrate compliance with the requirements of the Virginia Solid Waste Management Regulations (VSWMR), Amendment No. 8, which became effective August 4, 2011 (9 VAC 20-81 *et seq*.).

The following additional documents that may be referred to in this plan complete the facility's permit attachments:

- Design Report (DR), latest version
- Design Plans, latest version
- Reclamation Operating Plan (ROP)
- Construction Quality Assurance Plan (CQAP), latest version
- Leachate Management Plan (LMP), latest version
- Landfill Gas Management Plan (LFGMP), latest version
- Closure Plan (CP), latest version
- Post-Closure Care Plan (PCCP), latest version
- Corrective Action Plan (CAP), latest version

In addition to the above-listed permit attachments, the facility maintains an Operations Manual (OM) in accordance with §9VAC20-81-485. The OM includes a landfill operation plan, an inspection plan, and a safety plan. Any operational issues or activities not specifically discussed in this GWMP will revert to the facility's OM.

A. PURPOSE

The purpose of the groundwater monitoring plan (GWMP) is to provide Loudoun County with a set of guidelines for conducting routine monitoring of groundwater quality in the uppermost aquifer of LCSWMF.

Monitoring is required by the Virginia Solid Waste Management Regulations (VSWMR) to assess the impact of the facility on groundwater quality in the uppermost aquifer underlying that facility (***9 VAC 20-81-250***).

The subject plan includes requirements for monitoring two waste disposal units under the facility's Permit No. 1 as a Sanitary Landfill:

- *municipal solid waste* (MSW) Disposal Unit
- *construction and demolition debris* (CDD) Recycling and Disposal Unit

The subject Plan was prepared in general accordance with guidance provided by the Virginia Department of Environmental Quality (DEQ).

The GWMP will be effective during the active life of the LCSWMF and during the post-closure care period (30 years after closure).

B. Document Primacy

All documents related to groundwater monitoring and previously submitted to DEQ by Loudoun County are now replaced by this GWMP. Future revisions to this document will be listed in the Revisions Section of the Table of Contents.

C. Overview

This GWMP for the facility is divided into the following parts:

1. **Introduction**, with background hydrogeologic information.
2. **Design and Construction of Monitoring System**, providing information about the monitoring well network, describing the phasing of the monitoring network as the facility develops, and showing the design and location of wells that will be added to the existing network.
3. **Sampling and Analysis Plan**, describing the specific Standard Operating Procedures for groundwater sampling and analysis, with the frequency of sampling and the list of the parameters to be analyzed.
4. **Evaluation of Sample Results**, describing how sample results will be statistically compared and evaluated to determine the correct course of action for Loudoun County.
5. **Record Keeping and Reporting**, which describes the types of records which the LCSWMF will keep to document operation of the GWMP and the responses which the County will make based on the evaluation of sampling results.

D. Documents Included By Reference

The following documents are included in this GWMP by reference:

1. **LCSWMF Drilling and Construction Logs of Groundwater Monitoring Wells**. This document includes drilling and as-built drawings for all groundwater monitoring wells. The document is continuously updated as new components are added to the monitoring system.
2. **Woods Road SWMF (aka WRDU), Part A Permit Application**, Loudoun County, Virginia. CH2M HILL, Inc., February 1993.

3. **Consolidated Part A Submittal, LCLF - Permit No. 1**, SWS, April 18, 2000.
4. **Reports of groundwater sampling and chemical analysis / Annual groundwater reports** (1993 through 2019, inclusive).

E. EXISTING GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

The geologic and hydrogeologic information presented in this document is a summary of several previous submissions made by Loudoun County since 1989. The numerous submissions made by Loudoun County exceed the requirements of DEQ Submission Instruction No. 11. Specifically, reference here is made to the five annual groundwater analyses reports submitted to DEQ (**Reference 4**).

In addition, site geologic and hydrogeologic data is included in the Part A permit application for the ***former*** WRDU (**Reference 2**), which is located directly south of the ***former*** LCLFDU in the same geologic setting.

Since 1989, Loudoun County has installed 44 groundwater monitoring wells at the ***former*** LCLFDU to obtain geologic and hydrogeologic site information, to obtain groundwater quality samples, and to determine groundwater flow rate and direction.

The discussion included in this section is based on the site-specific data gathered from these wells.

The uppermost aquifer is the unconfined water table aquifer. The geologic logging of more than 60 borings at the ***former*** LCLFDU, and another 45 at the former WRDU, has demonstrated that the geology in the unconfined water table aquifer beneath and around the site consists of bedrock overlain by saprolite.

A site plan showing the waste disposal units and property boundary of the LCSWMF is illustrated in **FIGURE GWMP-I-1. Site Plan**.

I:\Dropbox (SWS)\S Drive\Loudoun\Task 9 CDD Landfill Permitting and Construction\DEQ Figures\20190303-GWMP Site Development Plan 4/29/2019

N

GRAPHIC SCALE
200 0 100 200 400 800
(IN FEET)
1 inch = 500 ft.

PROPERTY LINE/FACILITY BOUNDARY (424.3 AC)

THE WOODS ROAD RTE 771

300'

PROPOSED WESTERN VIEW BERM

BUFFER

MUNICIPAL SOLID WASTE DISPOSAL UNIT (APPROXIMATELY 156.8 AC)

PERMITTED CELL 1C

EXISTING SEQUENCE IV CAP

EXISTING PHASE III

EXISTING SEQUENCE III CAP

EXISTING SEQUENCE II CAP

EXISTING PHASE II/SEQUENCE I CAP

STORMWATER MANAGEMENT SEDIMENTATION BASIN SB-3

BUFFER

PERMITTED CELL 2A

PERMITTED CELL 1B

EXISTING CELL R1

PERMITTED CELL R2

RELOCATED STORMWATER MANAGEMENT SEDIMENTATION BASIN SB-5 AND FOREBAY

FUTURE BORROW/STOCKPILE AND WASTE MANAGEMENT AREA (APPROXIMATELY 33 AC)

PROPOSED COMPOST LOCATION

STORMWATER MANAGEMENT SEDIMENTATION BASIN SB-5

40' WIDE CDD DISPOSAL UNIT ACCESS/HAUL ROAD

PERMITTED NORTHERN SCREENING BERM

MAINTENANCE BUILDING

EXISTING CELL 1A

CITIZENS CONVENIENCE CENTER

WHEEL WASH

EXISTING PHASE I/ SEQUENCE I CAP

PROPOSED STORMWATER MANAGEMENT SEDIMENTATION BASIN SB-6 AND FOREBAY

PROPOSED CDD RECYCLING AND DISPOSAL UNIT LIMITS (APPROXIMATELY 48 AC)

CELL A2

CELL A3

CELL B2

PERMITTED CELL 2B

SCALES AND SCALE HOUSE

CITIZENS CONVENIENCE CENTER

HOUSEHOLD HAZARDOUS WASTE STORAGE BUILDING

LANDFILL GAS BLOWER / FLARE

BUFFER

305'

CELL B1

CELL A1

ADMINISTRATION BUILDING

LEACHATE STORAGE TANK

LEACHATE PUMP STATION (TO BE REPLACED)

RECYCLING CENTER

STORMWATER MANAGEMENT SEDIMENTATION BASIN SB-1

PROPOSED LEACHATE PUMP STATION LOCATION

EASTERN VIEW BERM

PERIMETER FENCE

ASPHALT LANDFILL ENTRANCE GATE AND ROAD

305'

BUFFER

STORMWATER MANAGEMENT SEDIMENTATION BASIN SB-4

BUFFER

PROPOSED COMMUNICATIONS CELL TOWER

EVERGREEN MILLS ROAD RTE 621

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RESTON, VIRGINIA 20190
PHONE: (703) 834-0711

FIGURE GWMP-I-1
SITE PLAN

NOTES:

1. PHOTOGRAPH PREPARED BY QUANTUM SPATIAL, DULLES, VIRGINIA DATED JANUARY 28, 2019.

FIGURES GWMP-I-2, GWMP-I-3, GWMP-I-4, and **GWMP-I-5** contain cross sections of the geologic strata underlying the LCSWMF and the relation of the landfill and water table to those strata. A typical cross section of the subsurface geology underlying the landfill is as follows (from top to bottom):

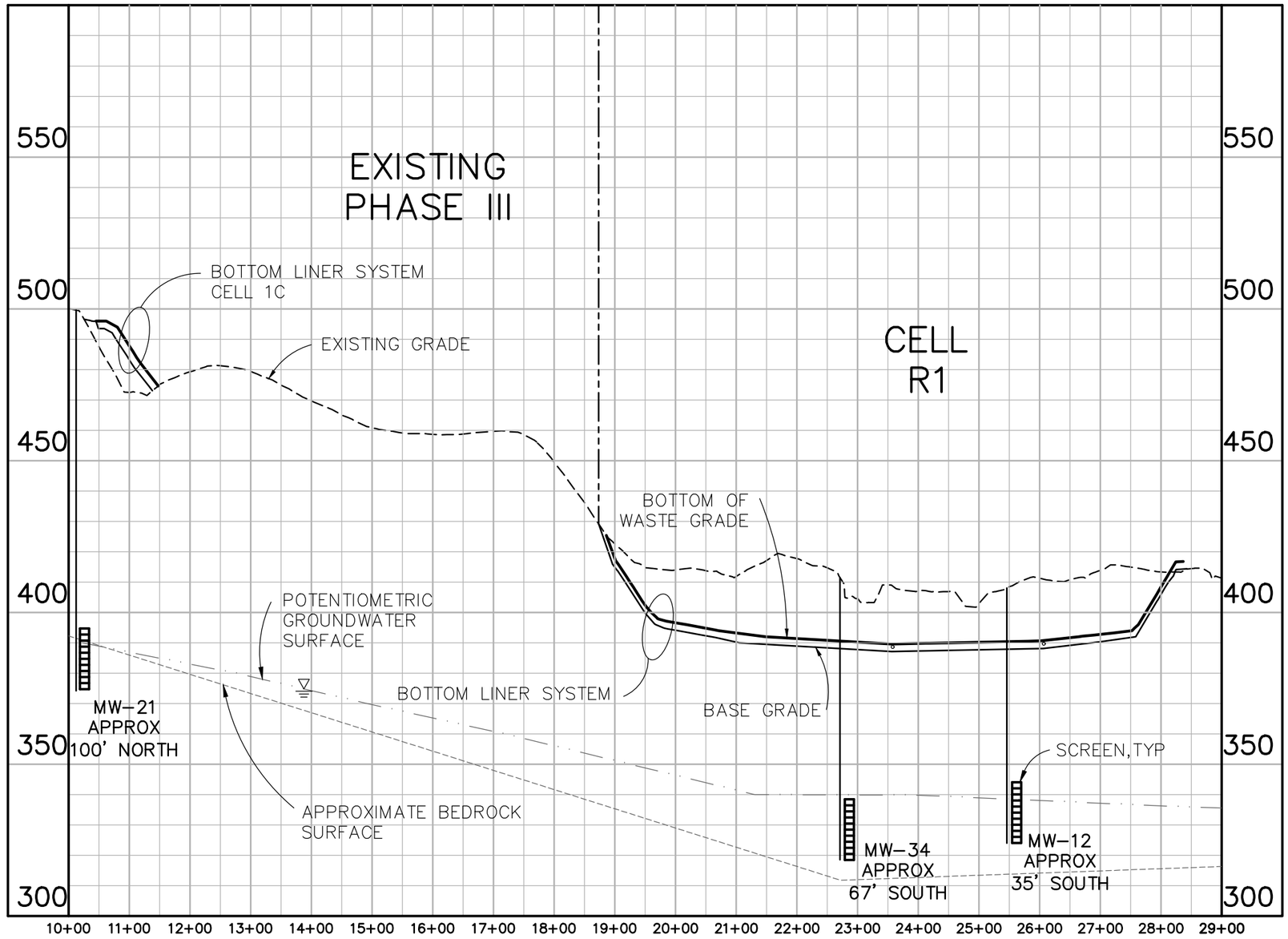
1. ***Saprolite.*** The unconsolidated saprolite surface extends from the interface zone to the topsoil cover. Discrete water-bearing zones are often randomly intercepted. The "groundwater yield" capacity of saprolite at this location is limited to water "seeping" into a screened monitoring well.
2. ***Interface zone.*** Typically, there is a highly weathered zone that extends one-half foot to 4 feet directly above the competent bedrock surface. The transmissivity of this zone generally ranges from high (at the bedrock surface) to progressively lower as the transition zone grades into saprolite. The interface zone typically lacks fine material (clays and silts) and is often significantly water-bearing (three to 100 gallons per minute [gpm]).
3. ***Bedrock***. The bedrock underlying the site contains interbedded limestone conglomerates (Goose Creek member of the Catharpin Formation) and sandstones with subordinate siltstones (Catharpin Formation) (Triassic to Jurassic in age).

   Groundwater migrates through the bedrock fractures and minor solution channels. Yields of wells drilled into the bedrock range from zero to 200 gpm.

   Several wells (both monitoring and domestic) have been drilled at the LCSWMF to depths exceeding 250 feet without intercepting any significant water-bearing zones. Screening wells in the bedrock can be challenging when water-bearing zones are scarce.

The bedrock is weathered to a saprolite leaving a very irregular bedrock surface, with troughs and ridges and some "floating" pieces of rock within the saprolite. The water table lies within the saprolite in almost all areas of the site. A highly permeable, but somewhat discontinuous, interface zone is present at the top of bedrock. Well-yields were estimated during drilling.

Site data indicate that the saprolite, interface zone, and top of bedrock are interconnected and usually act as one unconfined water table aquifer. The total thickness of the aquifer is approximately 125 feet, extending from the water table within the saprolite to the base of the fractured zone within the bedrock. This includes average thicknesses of 50 feet of saturated saprolite, five feet of interface zone, and 70 feet of slightly-to-moderately fractured bedrock.



SCALE:
HORIZ: 1"= 200'
VERT" 1"= 40'

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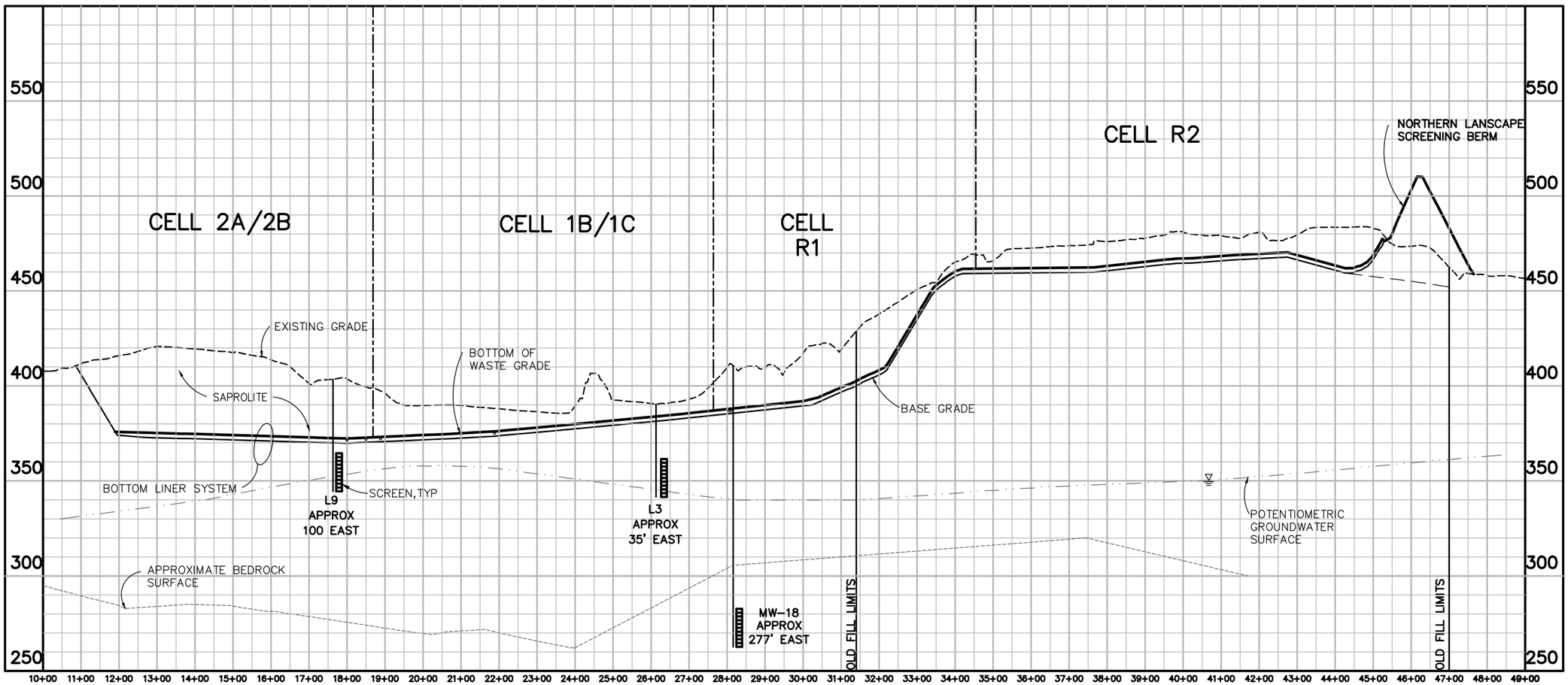
FIGURE GWMP-I-2

MSW DISPOSAL UNIT WEST-EAST CROSS SECTION A-A'



SCALE:
HORIZ: 1"= 300'
VERT" 1"= 60'

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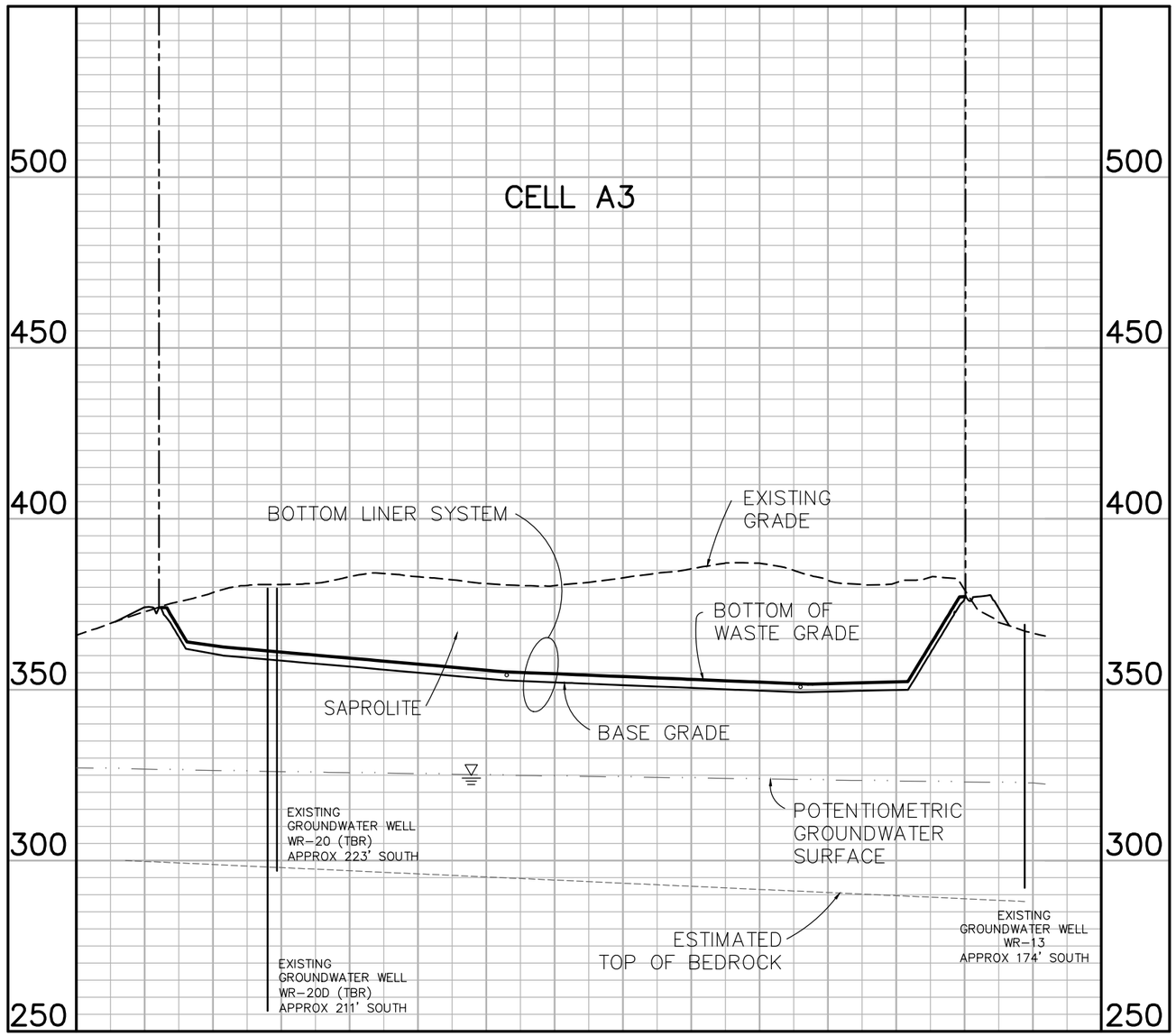
FIGURE GWMP-I-3

MSW DISPOSAL UNIT SOUTH-NORTH CROSS SECTION B-B'



SCALE:
HORIZ: 1"= 200'
VERT" 1"= 40'

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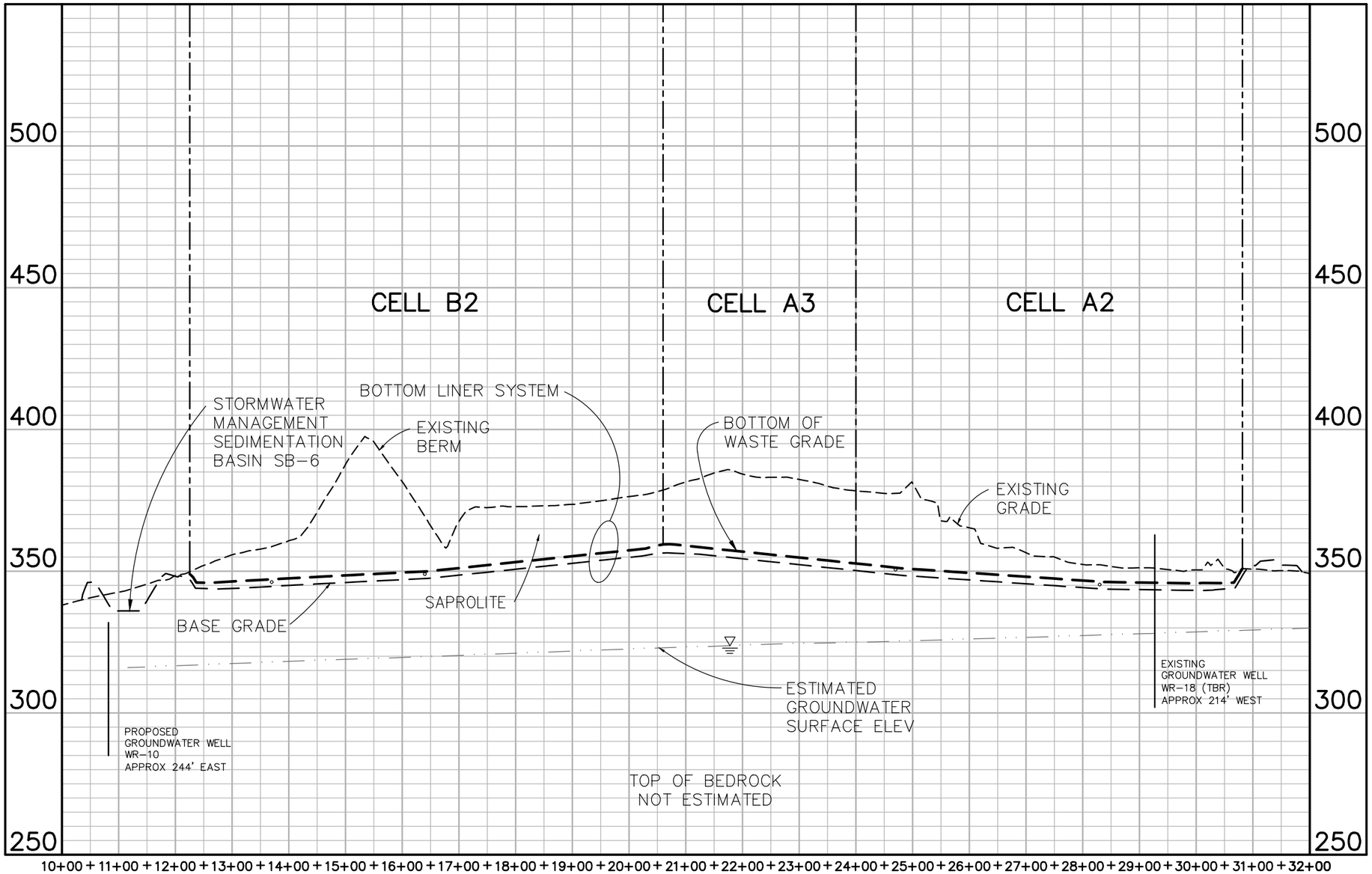
FIGURE GWMP-I-4

CDD RECYCLING AND DISPOSAL UNIT WEST-EAST CROSS SECTION C-C'



SCALE:
HORIZ: 1"= 200'
VERT" 1"= 40'

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FIGURE GWMP-I-5

CDD RECYCLING AND DISPOSAL UNIT SOUTH-NORTH CROSS SECTION D-D'

The saprolite, interface zone, and bedrock are considered to be three geologic units of the same aquifer for the following reasons:

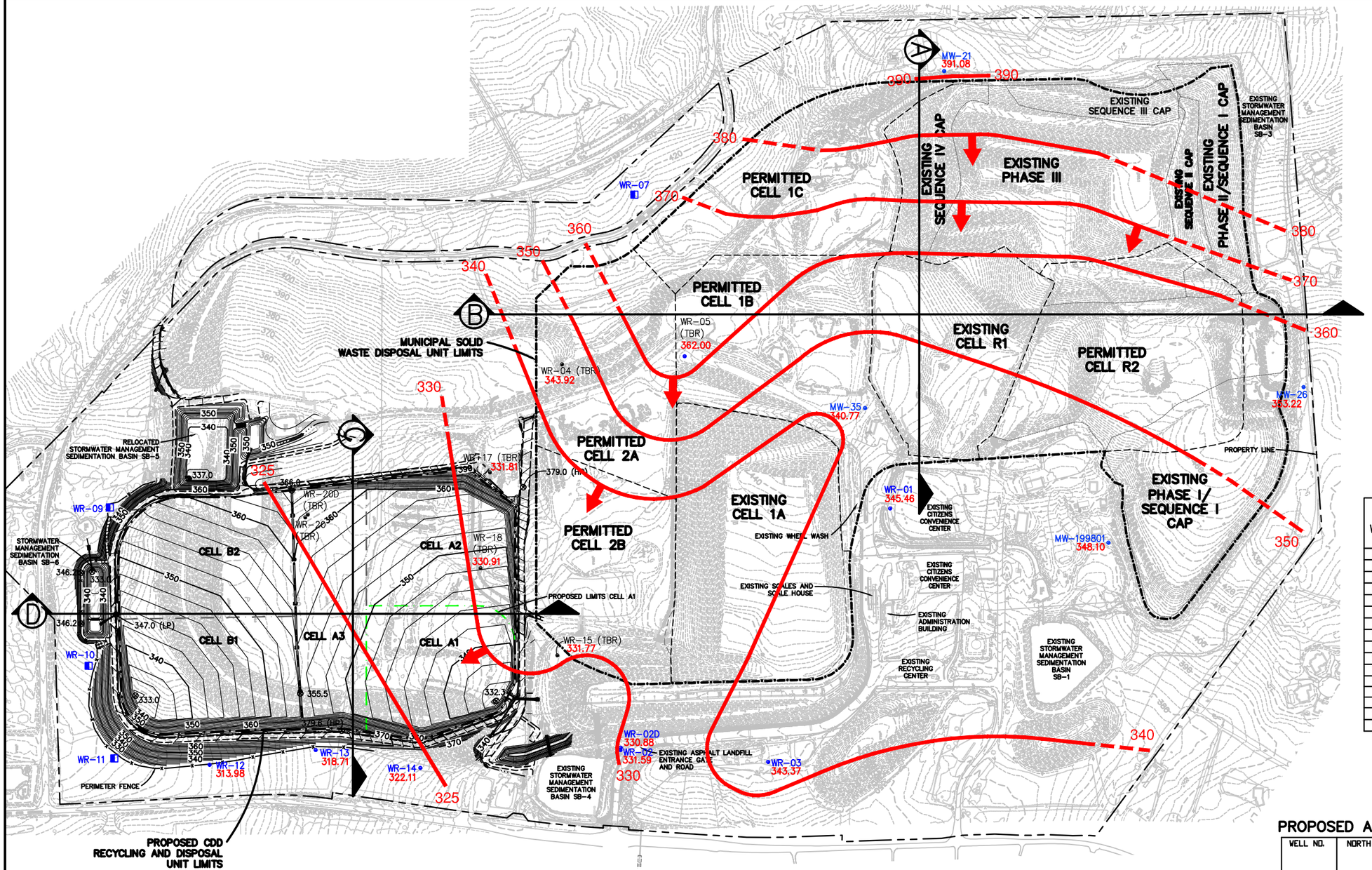
1. No distinct low permeability clay confining units separate the strata.
2. Water levels in paired wells installed in saprolite and bedrock (e.g. L-4A and L-4D) are essentially equal and rise and fall similarly over time.
3. A pumping test on well DW-20 (located approximately 1,250 feet south of the "Old Fill" area) showed a significant response in all three geologic units in nearby monitoring wells, even though DW-20 is screened in the interface zone and bedrock only.

Locally perched conditions have been noted in studies of the LCSWMF. A complete report on the results of the pumping test on DW-20 was submitted to the DEQ as part of the 1994 Annual Analysis of Groundwater Flow, dated March 3, 1995. These studies were also submitted to DEQ as the former WRDU Part A permit application, dated February 1993 (**Reference No. 2**).

FIGURE GWMP-I-6 shows groundwater surface contours indicating flow to the south and south-east of the facility, based upon a large database of water level data. The general flow of groundwater is from northwest to southeast, from a groundwater divide (just to the north and northwest of the area shown in **FIGURE GWMP-I-6**, and from a confirmed groundwater high mound along the western property line.

Since Loudoun County began assessment monitoring in ***1992***, the facility has analyzed groundwater flow characteristics during each regularly schedule sampling event, and (more extensively) in connection with each Annual Groundwater Monitoring Report.

C:\OneDrive\Solid Waste Services, LLC\Fouad Arbid - SWS S\Loudoun\Task 9 CDD Landfill Permitting and Construction\DEQ Figures\20200214-GWMP Potentiometric Map 2/14/2020



GRAPHIC SCALE

125 0 62.5 125 250 500

(IN FEET)
1 inch = 500 ft.

LEGEND:

- PERMITTED MSW DISPOSAL UNIT LIMITS
- 380 — POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR (7/15/2019)
- 380 — ESTIMATED POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION
- MW-26 — EXISTING GROUNDWATER MONITORING WELL
- WR-10 — FUTURE/PROPOSED GROUNDWATER MONITORING WELL
- EXISTING GRADE (AERIAL TOPO, FLOWN 1/28/2019)
- TBR — WELL TO BE REMOVED
- S2 — SECOND SEMI-ANNUAL SAMPLING EVENT

EXISTING GROUNDWATER WELL NETWORK

WELL I.D.	NORTHING	EASTING	EXISTING GROUND ELEV.	GROUNDWATER ELEV.
MW-21	7,063,764	11,740,211	501.0	391.08
MW-26	7,065,472	11,741,707	433.7	353.22
MW-35	7,063,409	11,741,707	392.0	340.77
MW-199801	7,064,555	11,742,439	396.3	348.10
WR-01	7,063,527	11,742,278	403.8	345.46
WR-02	7,062,259	11,743,414	349.5	331.59
WR-02D	7,062,261	11,743,402	350.0	330.88
WR-03	7,062,954	11,743,470	371.5	343.37
WR-04	7,061,984	11,741,600	406.4	343.92
WR-05	7,062,561	11,741,562	382.5	362.00
WR-12	7,060,326	11,743,483	337.0	313.98
WR-13	7,060,824	11,743,413	368.9	318.71
WR-14	7,061,317	11,743,498	347.7	322.11
WR-15	7,061,961	11,742,969	341.6	331.77
WR-17	7,061,644	11,742,107	389.7	331.81
WR-18	7,061,601	11,742,557	360.4	330.91

PROPOSED ADDITIONS TO GROUNDWATER WELL NETWORK

WELL NO.	NORTHING	EASTING	ESTIMATED EXISTING SURFACE ELEVATION	ESTIMATED ELEVATION OF BEDROCK	ESTIMATED ELEVATION OF WATER TABLE	ESTIMATED ELEVATION OF SCREEN
WR-07	7062324. 1675	11740801. 3120	425. 6	295	370	340-360
WR-08	NUMBER NOT USED					
WR-09	7059856. 8810	11742272. 1749	327. 5	270	318	288-308
WR-10	7059756. 4608	11743016. 4596	330. 3	262	315	285-305
WR-11	7059877. 6666	11743451. 9769	322. 1	262	315	285-305
WR-16	NUMBER NOT USED					

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FIGURE GWMP-I-6

COMPOSITE POTENTIOMETRIC MAP OF GROUNDWATER SURFACE (2020 S2)

II. DESIGN AND CONSTRUCTION OF MONITORING SYSTEM

A. MONITORING STRATEGY

The purpose of the groundwater monitoring system is to monitor the uppermost aquifer underlying the facility, where the uppermost aquifer is the unconfined water table aquifer. The geologic logging of more than 60 borings at the site has demonstrated that the site geology consists of bedrock overlain by saprolite.

The water table resides within residual soil (saprolite) in most areas of the site. The elevation of the surface of the bedrock surface is highly variable. The pattern of bedrock troughs and ridges was illustrated in the Part A permit application of the ***former*** WRDU (PART 1, Reference 2). A highly permeable, but discontinuous, interface zone is present at the top of bedrock in some areas.

The site data indicate that the saprolite, interface zone, and bedrock are interconnected and behave as a single unconfined water table aquifer having significant vertical variation in hydraulic conductivity. Even though the three units constitute one aquifer, this aquifer will primarily be monitored at two depths: in the upper 30 feet of the water table aquifer generally in the saprolite, and within the deeper bedrock at various depths from 47 to 165 feet below the water table.

Since ***1989***, Loudoun County has constructed more than 60 groundwater monitoring wells at the LCSWMF to determine geologic and hydrogeologic site information and to obtain groundwater samples, as well as determine flow rate and flow direction.

After evaluating the results of multiple groundwater monitoring events at the ***former*** LCLFDU, the County and DEQ agreed on the general directions of groundwater flow at this facility (see **FIGURE GWMP-I-6** and PART I, Section E).

The groundwater monitoring network at the LCSWMF will evolve as the different cells are constructed and begin operation. New monitoring wells will be added to the monitoring network as new cells are constructed. Also, some wells will be removed from the network as they become obsolete or redundant, or if they are located within the footprint of the subsequent cell.

B. MONITORING WELL NETWORK

As indicated above, the groundwater monitoring well network will be phased as required to achieve the County's monitoring strategy. The phasing of the monitoring network is described below.

TABLE GWMP-II-1 includes information on the screened interval and monitored zone for existing groundwater monitoring wells that are a part of the monitoring well network at the LCSWMF.

FIGURE GWMP-I-6 shows all existing and proposed groundwater monitoring wells.

Graphic logs for existing wells have been submitted to DEQ at the time those wells were installed and are kept on file in the facility's Operating Record. Construction logs for new monitoring wells will be provided to DEQ as soon as they are available to the County and before new wells are sampled.

B.1 Compliance Monitoring Well Network

Starting with the 2020 Second Semi-Annual Groundwater Sampling Event, S2, compliance wells will be as follows:

Facility background:	MW-21
Groundwater Compliance Network:	MW-199801
	MW-35
	WR-01
	WR-02
	WR-03
	WR-12
	WR-13
	WR-14

Sequencing of service. Of the compliance wells listed above, some will be placed into service and some will be abandoned and replaced with new compliance wells, as new cells are constructed over time. The sequence in which these changes will occur are prescribed as follows:

- Starting with the second 2020 semi-annual sampling event, S2, the following existing wells will be removed from the network and may be abandoned: WR-05, WR-15, WR-17, and WR-18. Additionally, wells WR-04, WR-20 and WR-20D, which are existing but have not been in service may also be abandoned.

- When construction of CDD Recycling and Disposal Unit Cell A2 commences, the facility will construct compliance wells WR-09, WR-10, and WR-11 and place them in service as part of the groundwater compliance network.

- When construction of Cell 1B commences, the facility will *abandon* assessment well MW-35. The facility will also *construct upgradient* well WR-07 and place it in service as part of the groundwater compliance network.

Well WR-07. The proposed location of well *WR-07* is on the crest of the topographic high that geomorphologically constrains the southwest side of the MSW Disposal Unit (upgradient well *MW-21* is located in a geomorphologically similar situation).

Information concerning groundwater flow patterns in the uppermost aquifer underlying the facility indicates that the proposed location of well *WR-07* is hydrogeologically *upgradient* of Cell 2A, may be hydrogeologically *cross-gradient* from Cell 1C, but is *not* likely to be hydrogeologically *downgradient* of any portion of the MSW Disposal Unit.

Accordingly, we propose to classify well *WR-07* as an *upgradient* well, unless subsequent information determines that *WR-07* is hydrogeologically *downgradient* of any portion of the MSW Disposal Unit.

B.3 Abandoned Monitoring Wells

As of the date of this Plan, the facility had abandoned a number of monitoring wells.

During *2006*, the County abandoned six monitoring wells: WR-06, MW-27, MW-31, MW-32, MW-40, MW-42. *None* of the abandoned wells were included in the facility's compliance monitoring network.

During *2008*, the County abandoned five monitoring wells: MW-16, MW-20, MW-23, MW-28, MW-30. *None* of the abandoned wells were included in the facility's compliance monitoring network.

During *2008*, the County abandoned two additional monitoring wells: L-04A, L-04D. *Neither* of these abandoned wells was included in the facility's compliance monitoring network.

During *2010*, the County abandoned one piezometer: P-1. This piezometer was not included in the facility's compliance monitoring network.

During *2014*, the County abandoned the following monitoring wells: MW-11A, MW-13, MW-14, MW-17, MW-19C, MW-24, MW-25, MW-29.

During *2015*, the County abandoned the following monitoring wells: MW-12, MW-18, MW-34.

During *2019*, the County abandoned the following monitoring wells: WR-19.

Table GWMP-II-1. LCSWMF Existing Groundwater Monitoring Network Well Data

Well Number	Date Installed	Status	Well Category	Ground Elevation	Top of Casing Elevation	Bedrock Elevation	Top Screen Elevation	Bottom Screen Elevation	Formation Screened	NAD 83 Northing	NAD 83 Easting
MW-21	6/4/91	In-Service	Upgradient	501.01	502.95	390.01	395.95	375.95	S-IZ-B	7,063,764	11,740,211
MW-199801	9/10/98	In-Service	Compliance	396.28	398.39	242.28	280.89	270.89	S-IZ-B	7,064,555	11,742,439
MW-35	4/30/92	In-Service	Compliance	392.02	394.31	282.31	330.31	310.31	Saprolite	7,063,409	11,741,707
WR-01	5/22/96	In-Service	Compliance	403.76	406.23	NE	332.23	312.23	Saprolite	7,063,527	11,742,278
WR-02	5/17/96	In-Service	Compliance	349.48	352.59	NE	326.75	306.75	Saprolite	7,062,259	11,743,414
WR-03	5/15/96	In-Service	Compliance	371.45	373.61	330.95	327.61	307.61	Saprolite	7,062,954	11,743,470
WR-12	8/13/2019	In-Service	Compliance	336.97	340.09	NE	300.27	290.27	Saprolite	7,060,326	11,743,483
WR-13	8/13/2019	In-Service	Compliance	368.94	371.75	NE	304.31	294.31	Saprolite	7,060,824	11,743,413
WR-14	8/13/2019	In-Service	Compliance	347.72	351.04	NE	302.3	292.3	Saprolite	7,061,317	11,743,498
MW-26	3/6/91	In-Service	Special LFG/GW Monitoring	433.7	435.62	NE	349.62	329.62	Saprolite	7,065,472	11,741,707

All data in NAD 83 and NAVD 88
TOC-Top of PVC casing-V notch at top of the PVC well casing marked with black
NE- Not encountered

C. CONSTRUCTION AND ABANDONMENT OF WELLS

C.1 Drilling Method

Where wells are to be screened in residual soils (not bedrock), boreholes may be drilled using hollow-stem auger drilling methods or air rotary drilling methods.

Where wells are to be screened in underlying bedrock, boreholes will be drilled using air rotary methods. Wash rotary drilling methods may be used instead of air rotary drilling methods for good technical cause, as judged by the Professional Geologist / Professional Engineer who is supervising the project.

C.2 Geologic Samples

Samples of soil and rock (as applicable) will be obtained from each geological unit that can be recognized while drilling is in progress. The nature of the samples will depend upon the method of drilling involved (split spoon sampler, Shelby tube sampler, cuttings).

The following geologic / hydrogeologic characteristics will be recorded:

- soil /rock color
- relative moisture content (for soil / as in damp, moist, or wet)
- grain size (for soil or sedimentary rock / as in fine-grained, medium-grained, coarse-grained sand)
- soil classification (as in clay, silt, sand) / rock classification (as in shale, siltstone, sandstone, conglomerate)

In addition, driller's depth to water will be logged.

C.3 Well Construction

New or replacement monitoring wells will be constructed at locations approved by DEQ, in advance of their construction.

New monitoring wells will be constructed of ***Schedule 40*** or Schedule 80 polyvinyl chloride (PVC) pipe and screen having a ***nominal diameter*** of ***four (4) inches.***

Where a well is to be constructed wholly within residual soil (saprolite) or bedrock, the well screen shall be ***twenty (20) feet*** in length unless otherwise determined by a groundwater professional. Where a well is to be constructed wholly or partially within the interface zone, the well screen shall be ***ten (10) feet*** in length.

The proposed screen depths are based on existing geologic information and history of drilling monitoring wells at the LCSWMF. A typical monitoring well construction diagram is shown in **FIGURE GWMP-II-1**.

The ends of well pipe and well screen shall be ***factory-threaded***. When threaded joints are designed to accommodate O-rings, then O-rings shall be installed when assembling the pipes.

Glue or solvents will ***not*** be used to join sections of well pipe and well screen.

Well screens shall consist of ***factory-slotted*** pipe (field-slotted well pipe will ***not*** be used when constructing compliance wells). ***Slot width*** shall be ***0.010-inch*** (unless another slot size is prescribed by the Geologist / Engineer who is supervising the project, if prescribed for technical reasons). The default slot size is intended to be small enough to prevent the geologic material from passing through the slots.

Once the well screen and pipe have been placed in the borehole, a ***cap*** shall be placed on the top of the well pipe (to prevent extraneous material from falling down the well pipe).

The annulus (the annular space between the borehole wall and the well pipe) will be backfilled with manufactured ***No. 1 well sand***, from the bottom of the screened interval to a point approximately ***two feet*** above the top of the manufactured well screen.

The annulus will then be backfilled with manufactured ***No. 00 well sand***, to a point approximately ***one foot*** above the top of the underlying ***No. 1 well sand*** (to serve as a buffer between the overlying bentonite seal and the underlying No. 1 sand pack.

The annulus will then be backfilled with ***bentonite pellets***, to a point approximately ***two feet*** above the top of the underlying No. 00 well sand. The driller will hydrate the pellets, using ***potable water***, before proceeding to the next step in the construction process.

The annulus will then be backfilled with ***cement-bentonite grout***, from the top of the underlying bentonite pellets to the surface of the ground. The ratio of cement to bentonite power shall be approximately 95:5. The amount of water added to the grout shall not be more than necessary to introduce the grout into the borehole.

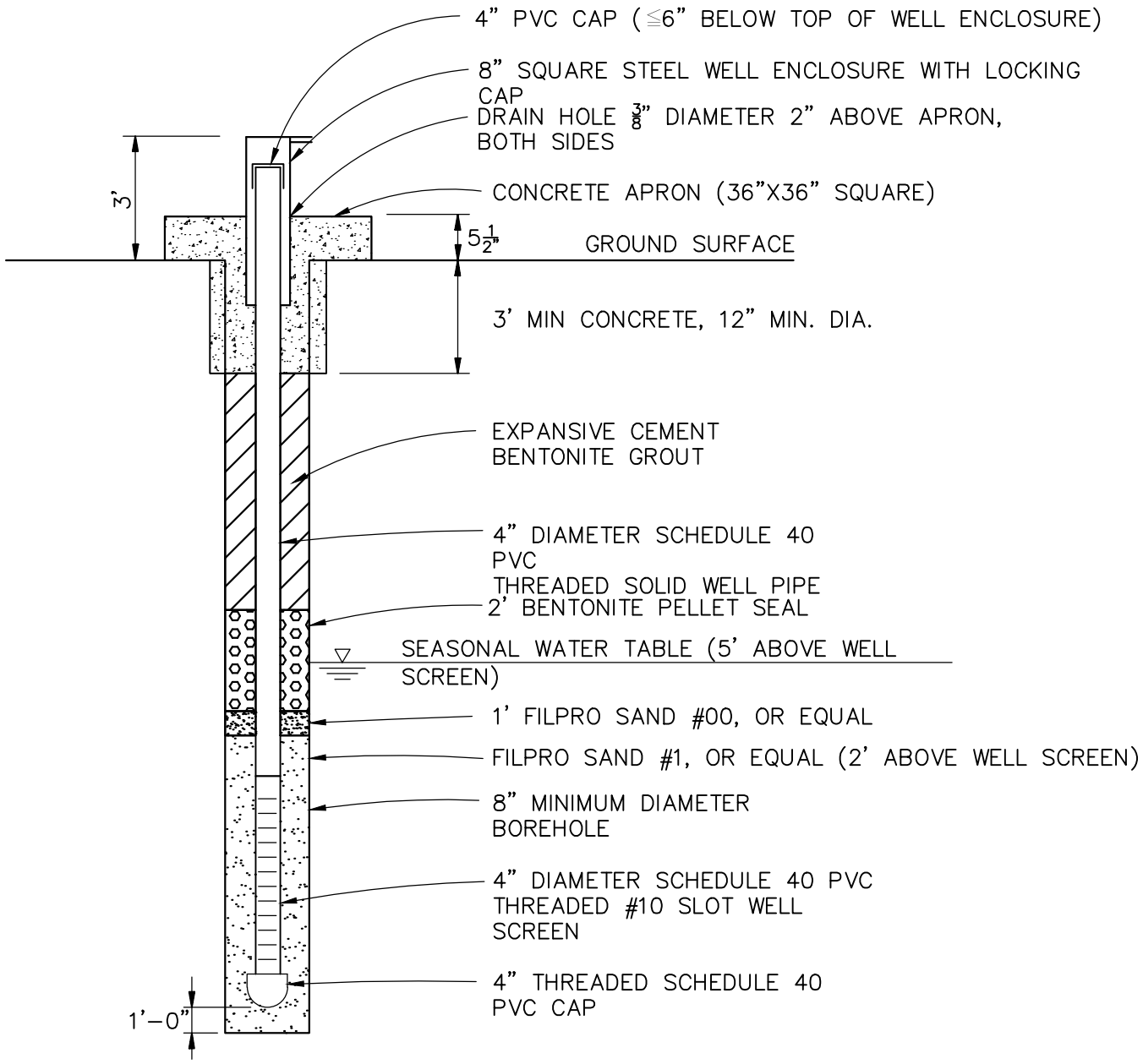

FIGURE GWMP-II-1

GROUNDWATER MONITORING WELL CONSTRUCTION DIAGRAM

NTS

SWS

11706 BOWMAN GREEN DRIVE
RESTON, VIRGINIA 20190
PHONE: (703) 834-0711

A concrete pad, having approximate dimensions of ***3 feet x 3 feet x 5.5 inches***, shall be constructed around the well pipe. A lockable, ***steel protective casing*** will be placed over the well and set into the concrete pad. A ***survey medallion*** (or spike) will be pressed into the concrete pad. The facility will place a ***padlock*** on the protective casing.

C.4 Equipment Decontamination

All equipment used to install wells will be decontaminated with a steam cleaner prior to arriving at the facility and between constructing different wells (in order to help prevent cross contamination).

Decontamination fluids may be discharged into the leachate collection system or to a Publically Owned Treatment Works (POTW).

Decontamination fluids may also be discharged to the surface of the ground, at the facility, if not contaminated. In order to determine if decontamination water is contaminated, a sample will be chemically analyzed for the volatile organic constituents listed in VSWMR TABLE 3.1 Column A. Samples in which the concentrations of one or more regulated constituents exceed their respective limits-of-quantitation shall be classified as "*contaminated*."

C.5 Well Development

The wells will be developed to restore the natural hydraulic conductivity of the formation and to minimize the content of silt and clay in the groundwater samples. The well development methods utilized at the LCSWMF will follow US Environmental Protection Agency (USEPA) document EPA/530-R-93-001, *"RCRA Ground-Water Monitoring: Draft Technical Guidance,"* dated November 1992.

Additional, site-specific guidance is provided in a letter from letter from Emery & Garrett Groundwater, Inc., to Richard Weber, Director, OSWM (dated January 20, 1999):

- "The Loudoun County Landfill is underlain by a complex rock unit named the Goose Creek Conglomerate member of the Bull Run Formation. The conglomerate contains limestone clasts and a carbonate cement that holds the rock together. The carbonate portion of the rock mass (and its weathered by-products) is largely responsible for the complexity of groundwater flow *and* associated difficulties in installing monitoring wells. The carbonate component of the rock mass, combined with the great local variation that exists in the conglomerate, create many of the difficult conditions for groundwater monitoring in fractured rock and karst environments. In their 1992 document, the USEPA acknowledges that development of wells in fractured rock and karst environments may not preclude high turbidity levels. In the decision chart provided in this document, it states that a turbid sample can still be acceptable (representative) if it comes from a 'karst terrane.'

- "During the installation of some wells at the landfill, mud composed of extremely fine-grained materials is commonly intercepted. Such muds are composed of the remnants of fine-grained carbonate-cemented rocks which have weathered in the near surface (i.e., 0-100 feet below grade).
- "This 'mud,' in most cases, exists within the interval at which proposed monitoring wells must be screened. In such instances, the prescribed monitoring well construction requirements cannot safeguard against the entry of turbid water, since it has been designed based on the bulk properties of the landfill's unconsolidated materials. There are no screen openings and sand packs that are sufficient to hold back the majority of this remnant weathered material (i.e., fine-grained mud) and yet produce sufficient water for sampling. Therefore, development of such a monitoring well screened in this material will sometimes yield water having elevated levels of turbidity, even after multiple days of using a variety of development methods.
- "The development method we have found to be most successful at this project site is pumping the monitoring well while surging intermittently. This method utilizes a submersible pump capable of passing fine materials through the pump impellers. No outside water is used during the development process. Development time for wells at the Landfill has ranged from three hours to several days. The development process is terminated when pumped water from the monitoring well is clear or after three days of rigorous development activities."

C.6 Documentation of Well Construction

The details of monitoring well construction will be recorded during well installation and documented in a well completion log after the well is completed and surveyed.

Well completion logs will be reviewed and sealed by a professional groundwater scientist registered in the Commonwealth of Virginia.

The following information will be obtained for each well using standard surveying methods.

- ***location*** (northing / easting, to within ***0.1 ft***)
- ***elevation*** points:
  - ***elevation*** of ground surface (to within ***0.1 ft***)
  - ***elevation*** at top of well pipe (measuring point) (to within ***0.01 ft***)
  - ***elevation*** on top of protective steel casing (when closed) (to within ***0.01 ft***)

In addition to survey information, complete documentation of well construction will include the following information (some of which may also be shown on the completion log):

- date of drilling
- drilling method
- borehole diameter

- borehole depth
- well (PVC pipe) depth (to within 0.01 foot)
- drilling and lithologic logs
- date of well construction
- well pipe / screen diameter
- well screen length / slot size
- well pipe / screen joints (threaded, or otherwise)
- sand pack material / size fraction
- sand pack volume
- sand pack placement method
- bentonite products used
- grout used (cement:bentonite ratio and placement method)
- concrete pad description
- protective casing description and stick up above grade
- well cap installed at top of pipe
- unusual conditions encountered (if any)
- nature of geologic samples, sample depths, sample descriptions

Within ***15 days*** of completing all activities and documentation associated with the construction of a new well, the facility will notify DEQ that the well has been constructed.

Within ***90 days*** of completing all activities associated with the construction of a new well, the facility will place information concerning the construction of a new well in the Operating Record and provide that information to DEQ.

C.7 Well Abandonment

If wells deteriorate to the extent that the integrity of the groundwater sample is compromised, the wells will be abandoned. Proper abandonment is intended to help prevent surficial contamination from entering the underlying aquifer.

DEQ approval will be obtained in writing prior to abandoning any well that is included in the permitted monitoring network.

Wells will be abandoned using the following procedure:

1. Document the location of the well to be abandoned.
2. Inspect the well pipe and well screen to ascertain if there are any obstructions that would interfere with the sealing operation.
3. Remove all well equipment, including, but not limited to, pumps, hoses, and clamps. This material shall be decontaminated according to manufacturer's specifications (if available, or generally accepted protocols, if not available from the manufacturer), and stored or disposed of, as desired.
4. Remove the concrete pad.

5. Remove the protective steel casing.
6. Cut the PVC well pipe approximately one foot below grade (where practicable).
7. Fill the well screen / well pipe using a cement-bentonite grout (cement: bentonite ratio = 95:5 or Benseal) using the tremie pipe method, starting at the bottom of the well and moving upward through the well pipe.
   i. Alternatively, as authorized by the Professional Geologist or Professional Engineer who is supervising the project, the well may be sealed using "manufactured" bentonite pellets. Care must be used to prevent bridging of pellets within the well pipe.
   ii. Bentonite powder should not be used, as it will bridge. Bentonite gravel (chips) is not recommended, as it too may bridge. "***Manufactured***" pellets are typically larger than chips and uniformly rounded.
8. Inspect the well within the next several days, for settlement of the grout. Backfill any significant settlement (more than three or four inches) with cement-bentonite grout or bentonite pellets.

Within ***15 days*** of abandoning a well, the facility will notify DEQ that the well has been abandoned.

Within ***90 days*** of abandoning a well, the facility will place information concerning the abandonment (date, materials, methods) in the Operating Record and provide that information to DEQ.

III. SAMPLING AND ANALYSIS PLAN

This PART describes the standard operating procedures (SOP) for collecting and analyzing groundwater samples from the monitoring wells, the frequency at which wells are sampled, and the constituents for which those samples shall be chemically analyzed.

A. FIELD PROCEDURES

Groundwater sample collection procedures are discussed in detail in the SOP for groundwater quality sample collection, provided in **APPENDIX GWMP-APP-A**. The SOP includes the following contents:

- Personal Protection and Safety
- General Protocols
- Equipment Decontamination
- Monitoring Groundwater Potentiometric Levels
- Water Quality Sampling Procedures

Monitoring wells shall be fitted with ***dedicated electric submersible pumps***, wherever deemed practicably by the normal height of the water column in the well (see **APPENDIX GWMP-APP-A**).

Groundwater samples shall be obtained from the wells listed in **TABLE GWMP-III-1**. The TABLE will be revised as other wells are added or removed from the network, concurrent with the continued development of the facility (see **PART II**).

B. SAMPLING PROGRAMS

Loudoun County currently obtains and chemically analyzes groundwater samples in the manner summarized on **TABLE GWMP-III-1**.

Specifically, groundwater samples shall be obtained from all current and future ***compliance wells*** on a ***semi-annual*** schedule. The facility may request a reduction in the frequency of sampling in the future, as allowed under VSWMR.

The facility shall obtain groundwater samples from ***special monitoring well MW-26*** on an ***annual*** schedule.

Special monitoring will be terminated and the well will be abandoned when either:

1. the concentrations of all monitored constituents are less than the laboratory Limit of Quantitation (LOQ), or other recognized Reporting Level (RL), for ***two consecutive regularly scheduled sampling events***, or
2. the Old Fill reclamation is completed as described in the Reclamation Operating Plan and shown on the Design Plans.

TABLE GWMP-III-1
Loudoun County Solid Waste Management Facility Groundwater Monitoring Network and Sampling Plan

Well ID	Purpose of Well	Sampling Frequency	Monitoring Program		
			Module X Detection (Subset)	Module XI Assessment	Module XIV CAMP (PRMP) Sentinel/Mid Plume
MW-21	Facility Background	Semi-Annually		Table 3.1 B / A + Bd	COC
WR-07	Proposed Facility Background (Future)	Semi-Annually		Table 3.1 B / A + Bd	COC
MW-199801	POC	Semi-Annually		Table 3.1 B / A + Bd	COC
MW-35	POC	Semi-Annually		Table 3.1 B / A + Bd	COC
WR-01	POC	Semi-Annually		Table 3.1 B / A + Bd	COC
WR-02	POC	Semi-Annually	Table 3.1 A		COC
WR-03	POC	Semi-Annually	Table 3.1 A		COC
WR-09	Proposed POC (Future)	Semi-Annually	Table 3.1 A		COC
WR-10	Proposed POC (Future)	Semi-Annually	Table 3.1 A		COC
WR-11	Proposed POC (Future)	Semi-Annually	Table 3.1 A		COC
WR-12	POC	Semi-Annually	Table 3.1 A		COC
WR-13	POC	Semi-Annually	Table 3.1 A		COC
WR-14	POC	Semi-Annually	Table 3.1 A		COC
MW-26	Special	Annually			

Detection (Subset) - a well sampled only for Table 3.1 Column A while a facility is in Assessment Monitoring
Assessment - a well sampled for Table 3.1 Column B once per year / Column A + Column B detects other Semi-Annual sample
CAMP (PRMP) - a well to monitor Constituents of Concern under Corrective Action Presumptive Remedy Monitoring Plan (PRMP)
Special - a well to monitor the effects of landfill gas migration on groundwater quality-Not part of compliance network

B1. SAMPLING PROGRAM: DETECTION MONITORING

When monitoring groundwater in accordance with regulatory requirements for Detection Monitoring, the facility shall obtain and analyze groundwater samples in accordance with this SECTION.

B.1.1 Introduction

The Detection Monitoring Program is designed to identify the concentrations of specific organic and inorganic constituents in the uppermost aquifer.

B.1.2 Constituents

The Detection Monitoring Program shall include monitoring for all of the constituents listed in *VSWMR* Table 3.1, Column A.

B.1.3 Background Sampling Events

Background sampling events have been completed for Detection Monitoring constituents.

B.1.4 Regularly-Scheduled Compliance Sampling Events

During each regularly-scheduled sampling event, one set of samples shall be obtained from each well included in the monitoring network, and analyzed for the constituents listed in *VSWMR* Table 3.1, Column A (additional sets of samples will be obtained for quality control purposes).

B.1.5 Evaluation

If the owner/operator determines that there is not a statistically significant increase over background for one or more of the Detection Monitoring constituents at any monitoring well at the subject boundary, the owner/operator may continue semi-annual sampling under the Detection Monitoring program.

If the owner/operator determines that there is a statistically significant increase over background for one or more of the Detection Monitoring constituents at any downgradient point-of-compliance, then the owner/operator shall

- within ***14 days*** of this finding, notify DEQ of this fact, indicating which constituents have shown statistically significant increases over background levels
- within ***90 days***, establish an assessment monitoring program meeting the requirements of *VSWMR*, or submit an Alternate Source Demonstration as specified in *VSWMR*

B.1.6 Verification Sampling

The owner or operator may at any time within ***30 days*** of completion of sampling and laboratory analysis (as evidenced by the date posted on the laboratory certificate-of-analysis), obtain verification samples, if the initial review of the analytical data suggests results that might not be an accurate reflection of groundwater quality at the disposal unit boundary.

Verification sampling is a voluntary action and shall not alter the timeframes associated with reporting a statistically significant increase.

B.1.7 Data Validation

The owner or operator may at any time within ***30 days*** of completion of sampling and laboratory analysis (as evidenced by the date posted on the laboratory certificate-of-analysis), undertake third party data validation of the analytical data received from the laboratory.

Data validation is a voluntary action and shall not alter the timeframes associated with reporting a statistically significant increase.

B.1.8 Alternate Source Demonstration

As a result of any statistically significant increase and in accordance with *VSWMR*, the owner or operator may submit an ***Alternate Source Demonstration*** report, certified by a qualified groundwater scientist.

If a successful demonstration is made, the owner/operator shall continue monitoring in accordance with the Detection Monitoring program.

If after ***90 days***, a successful demonstration has not been made, the owner or operator shall initiate an assessment monitoring program in accordance with *VSWMR*. The 90-day Alternate Source Demonstration period may be extended by the Director for good cause.

B.1.9 Record Keeping Requirements

The facility shall keep records of the analyses and evaluations throughout the active life of the facility, and throughout the post-closure care period as well.

Such records shall include, but are not limited to, information pertaining to well construction, sampling, laboratory analyses, statistical evaluations, static water levels, Department correspondence to the landfill, and all approved variances, well subsets, wetlands, or other such Director/Department approvals.

B.1.10 Reporting Requirements

In accordance with *VSWMR*, the owner / operator shall:

- submit a *report of groundwater sampling and analysis* no later than ***120 days*** from the completion of sampling and analysis for the first semi-annual groundwater sampling event conducted for the calendar year
- submit a *report of groundwater sampling and analysis* no later than ***120 days*** from the completion of sampling and analysis for the second semi-annual groundwater sampling event conducted for the calendar year
- submit an *Annual Groundwater Report* no later than ***120 days*** from the completion of sampling and analysis for the second semi-annual groundwater sampling event conducted for the calendar year

Under normal circumstances, the facility will submit a separate report of groundwater sampling and analysis to document each sampling event. At the discretion of the facility, however, the second semi-annual report of groundwater sampling and analysis may be attached to the Annual Groundwater Report.

B2. SAMPLING PROGRAM: ASSESSMENT MONITORING

When monitoring groundwater in accordance with regulatory requirements for Assessment Monitoring, the facility shall obtain and analyze groundwater samples in accordance with this section.

B.2.1 Introduction

Within ***90 days*** of recognizing a statistically significant increase over background for one or more of the constituents listed in *VSWMR* Table 3.1, Column A, the owner/operator shall implement an Assessment Monitoring program.

B.2.2 Constituents

The Assessment Monitoring Program shall include monitoring for all of the constituents listed in *VSWMR* Table 3.1, Column B.

B.2.3 Well Subsets

The owner or operator may request that the director approve an appropriate subset of monitoring wells that may remain in Detection Monitoring, based on the results of the initial, or subsequent annual Table 3.1, Column B sampling events. Monitoring wells may be considered for the subset if:

- they show no detections of *VSWMR* Table 3.1, Column B constituents other than those already previously detected during Detection Monitoring
- they display no statistically significant increases over background for any constituents listed on *VSWMR* Table 3.1, Column A

If an increase is subsequently recognized in a well approved for the subset, the well shall no longer be considered part of the detection monitoring subset.

B.2.4 Development of Facility Background Values

Within ***180 days*** of the initial Assessment Monitoring sampling event, establish a facility background concentration for each constituent listed in *VSWMR Table 3.1, Column B* that has been reliably detected in groundwater at the facility.

A minimum of four independent samples from each background well shall be collected and analyzed to establish background for the detected constituents.

At this facility, background sampling events have been completed for Assesssment Monitoring constituents.

B.2.5 Establishment of Groundwater Protection Standards

For each constituent listed in *VSWMR* Table 3.1, Column B, the facility reviewed drinking water standards (MCLs, if promulgated), Alternate Concentration Limits (ACLs), and Facility Background Concentrations (FBACs) in order to select the most appropriate Groundwater Protection Standard.

In the event that a constituent is not associated with an MCL, ACL, or Statistical Prediction Limit (SPL), then the Estimated Quantitation Limit (EQL, as published in SW-846) and/or the laboratory Limit-of-Quantitation (LOQ) shall serve as the Groundwater Protection Standard.

No later than ***60 days*** after approval of Groundwater Protection Standards, the facility shall submit an updated Groundwater Monitoring Plan that details the monitoring well network and the groundwater sampling and analysis requirements to be conducted during groundwater monitoring events.

No later than ***30 days*** after the submission of the Groundwater Monitoring Plan, the facility shall request a permit modification to incorporate the Groundwater Monitoring Plan and related Groundwater Monitoring Modules into the landfill's Permit.

At this facility, the requirement for establishing Groundwater Protection Standards have been met.

B.2.6 Semi-Annual Sampling Events

During each semi-annual event, one sample shall be obtained from each well included in the Plan and analyzed as follows:

- First semi-annual sampling for all constituents listed in *VSWMR* Table 3.1, Column A (plus those constituents listed in *VSWMR* Table 3.1, Column B that have been detected during previous Column B sampling events)
- Second semi-annual sampling for all constituents listed in *VSWMR* Table 3.1, Column B

B.2.7 Evaluation

After obtaining the results of the initial and subsequent *VSWMR* Table 3.1, Column B sampling event, the facility shall:

- within ***14 days***, notify the Department; identify the *VSWMR* Table 3.1, Column B constituents that have been detected

If the concentrations of all *VSWMR* Table 3.1, Column B constituents are at or below their

respective facility background concentrations for two consecutive *VSWMR* Table 3.1, Column B sampling events, the owner or operator shall:

- within ***14 days***, notify the Director identifying the Assessment Monitoring constituents that have been detected
- submit the results in a semi-annual groundwater monitoring report and may return to Detection Monitoring

If the concentrations of any *VSWMR* Table 3.1, Column B are found to exceed its respective facility background concentration, but is less than its respective Groundwater Protection Standard, the owner or operator shall:

- within ***14 days***, notify DEQ of the Assessment Monitoring constituents that have been detected
- submit the results in a semi-annual groundwater monitoring report and continue in the Assessment Monitoring Program

If the concentration of one or more *VSWMR* Table 3.1, Column B constituent exceeds its respective Groundwater Protection Standard, the owner or operator shall:

- within ***14 days***, notify DEQ of those *VSWMR* Table 3.1, Column B constituents that have exceeded its respective Groundwater Protection Standard. The notification will include a statement that within 90 days the owner or operator will either:
  - enter *groundwater corrective action* (undertake characterization and assessment actions) or
  - submit an *Alternate Source Demonstration*

B.2.8 Verification Sampling

The owner or operator may at any time within ***30 days*** of completion of sampling and laboratory analysis (as evidenced by the date posted on the laboratory certificate-of-analysis), obtain verification samples, if the initial review of the analytical data suggests results that might not be an accurate reflection of groundwater quality at the disposal unit boundary.

Verification sampling is a voluntary action and shall not alter the timeframes associated with reporting a statistically significant increase.

B.2.9 Data Validation

The owner or operator may at any time within ***30 days*** of completion of sampling and laboratory analysis (as evidenced by the date posted on the laboratory certificate-of-analysis), undertake third party data validation of the analytical data received from the laboratory.

Data validation is a voluntary action and shall not alter the timeframes associated with reporting a statistically significant increase.

B.2.10 Alternate Source Demonstration

As a result of any statistically significant increase and in accordance with *VSWMR*, the owner or operator may submit an *Alternate Source Demonstration* report, certified by a *Professional Geologist*, licensed in the Commonwealth of Virginia.

If a successful demonstration is made, the owner/operator shall continue monitoring in accordance with the Assessment Monitoring program.

If after *90 days*, a successful Alternate Source Demonstration has *not* been made, the owner or operator shall initiate groundwater Corrective Action in accordance with *VSWMR*. The *90-day* Alternate Source Demonstration period may be extended by the Director for good cause.

B.2.11 Record Keeping Requirements

The facility shall keep records of the analyses and evaluations throughout the active life of the facility, and throughout the post-closure care period as well.

Such records shall include, but are not limited to, information pertaining to well construction, sampling, laboratory analyses, statistical evaluations, static water levels, Department correspondence to the landfill, and all approved variances, well subsets, wetlands, or other such Director/Department approvals.

B.2.12 Reporting Requirements

In accordance with *VSWMR*, the owner / operator shall:

- submit a *report of groundwater sampling and analysis* no later than ***120 days*** from the completion of sampling and analysis for the first semi-annual groundwater sampling event conducted for the calendar year
- submit a *report of groundwater sampling and analysis* no later than ***120 days*** from the completion of sampling and analysis for the second semi-annual groundwater sampling event conducted for the calendar year
- submit an *Annual Groundwater Report* no later than ***120 days*** from the completion of sampling and analysis for the second semi-annual groundwater sampling event

conducted for the calendar year

Under normal circumstances, the facility will submit a separate report of groundwater sampling and analysis to document each sampling event. At the discretion of the facility, however, the second semi-annual report of groundwater sampling and analysis may be attached to the Annual Groundwater Report.

B3. SAMPLING PROGRAM: SPECIAL LFG / GW MONITORING WELL

Samples from the one special monitoring well (MW-26) are analyzed for the organic constituents that are shown in **TABLE GWMP-III-2**. This list of constituents is taken from the *"Appendix 3.1, Column A Constituents Included in EPA's Landfill Air Emissions Estimation Model."*

TABLE GWMP-III-2
REGULATED CONSTITUENTS
SPECIAL MONITORING WELL MW-26

CONSTITUENT[1]	CLASS[2]	CAS RN[3]	METHOD[4]
Mercury	volatile metal	Total	7470
Acetone	volatile	67-64-1	8260B
Acrylonitrile	volatile	107-13-1	8260B
Benzene	volatile	71-43-2	8260B
Bromodichloromethane	volatile	75-27-4	8260B
Carbon disulfide	volatile	75-15-0	8260B
Carbon tetrachloride	volatile	56-23-5	8260B
Chlorobenzene / monochlorobenzene	volatile	108-90-7	8260B
Chloroethane	volatile	75-00-3	8260B
Chloroform	volatile	67-66-3	8260B
o-Dichlorobenzene / 1,2-Dichlorobenzene	volatile	95-50-1	8260B
m-Dichlorobenzene / 1,3-Dichlorobenzene	volatile	541-73-1	8260B
p-Dichlorobenzene / 1,4-Dichlorobenzene	volatile	106-46-7	8260B
Dichlorodifluoromethane (CFC-12)	volatile	75-71-8	8260B
1,1-Dichloroethane	volatile	75-34-3	8260B
1,2-Dichloroethane (ethylene dichloride)	volatile	107-06-2	8260B
1,1-Dichloroethene	volatile	75-35-4	8260B
trans-1,2-Dichloroethene	volatile	156-60-5	8260B
1,2-Dichloropropane	volatile	78-87-5	8260B
Ethylbenzene	volatile	100-41-4	8260B
Methyl chloride / Chloromethane	volatile	74-87-3	8260B
Methyl ethyl ketone / 2-Butanone (MEK)	volatile	78-93-3	8260B
4-Methyl-2-pentanone / Methyl isobutyl ketone	volatile	108-10-1	8260B
Methylene chloride / Dichloromethane	volatile	75-09-2	8260B
1,1,2,2-Tetrachloroethane	volatile	79-34-5	8260B
Tetrachloroethene (PCE)	volatile	127-18-4	8260B
Toluene	volatile	108-88-3	8260B
1,1,1-Trichloroethane	volatile	71-55-6	8260B
1,1,2-Trichloroethane	volatile	79-00-5	8260B
Trichloroethene	volatile	79-01-6	8260B
Trichlorofluoromethane (CFC-11)	volatile	75-69-4	8260B
Vinyl chloride	volatile	75-01-4	8260B
Xylene (total)	volatile		8260B

IV. EVALUATION OF SAMPLE RESULTS

A. QUALITY CONTROL

A commercial laboratory accredited under the Virginia's Environmental Laboratory Program (VELAP) will be selected and retained under a multi-year contract. The laboratory must meet the requirements of the 2003 National Environmental Laboratory Accreditation Conference (NELAC) standards. Laboratory Quality Assurance/Quality Control procedures are reviewed during laboratory selection process and are kept on record at the facility.

B. DATA ANALYSIS PLAN

Analysis of the groundwater data addresses the following general criteria:

1. Unreliable Data Values / Outliers
2. Testing Data Distributions
3. Missing Data
4. Selection of Statistical Method
5. Verification Sampling

Statistical analyses shall be conducted in accordance with the general guidelines provided herein, statistical guidance offered by DEQ, and statistical guidance offered by EPA (for example, **ProUCL**, the statistical software provided by EPA for calculating prediction limits).

B.1 Unreliable Data Values / Outliers

Data to be subject to evaluation shall be investigated to identify statistical outliers and other data values that may be deemed unreliable for technical reasons (and may or may not be statistical outliers).

Statistical outliers (too large, too small, in the context of the available dataset) can be caused by sampling, laboratory, transportation, or transcription errors. To help remove the effects of such errors, the historical data should be screened for each well and constituent for the existence of outliers (USEPA 1992 Section 6.2) using the method described by Dixon (1953).

If an outlier from a well is identified at the time the results of chemical analysis are received, the facility may obtain and chemically analyze a verification sample, the results of which may replace the outlier. Verification sampling shall be conducted within the time frame required by VSWMR and current DEQ guidance.

We note that, in some instances, an outlier cannot be identified until a considerably amount of additional data have been obtained (through subsequent sampling events).

B.2 Testing Data Distributions

Testing of normality is not required when the percentage of non-detects or non-quantified values is greater than ***50%*** (such data are unlikely to be normally distributed anyway).

The owner/operator must verify that the distribution of analytical measurements is consistent with the assumptions of the test method. Environmental data often follow ***normal, log-normal***, or ***gamma*** distributions.

The Shapiro-Wilk test may be applied to background data to assess normality. To test for log-normality, the natural logarithms of original data are substituted for the original values in the Shapiro-Wilk test. If the logged values are normally distributed, the distribution is lognormal.

When the percentage of non-detects or non-quantified values is greater than ***50%***, or when the data do not follow the distribution on which a particular statistical test is founded, then a nonparametric (non-distributional) method shall be used.

B.3 Missing Data

If a sampling event results in a missing data value, an attempt to re-sample for the missing value is made as soon as practicable and results obtained during the compliance period.

The compliance period is defined as the time duration until the next regularly scheduled groundwater monitoring event.

B.4 Selection of Statistical Method

The County has considered an appropriate statistical method consistent with 9 VAC 20-81-250, Section D. of the VSWMR. As specified in the VSWMR, the level of significance is no less than 0.01 for individual well comparison and no less than 0.05 for multiple comparisons. The false positive rate for the non-parametric test methods depends upon the number of data points available from the background wells at the time of statistical comparison. The more background data points, the smaller are the false positive rates for these tests.

B.4.1 Interval Method

The purpose of the "interval method" is to establish ***an upper prediction limit*** for those regulated constituents that have been observed among facility background wells. In most situations, calculation of a prediction limit is applicable only to naturally occurring constituents (***metals***, in particular).

In some instances, regulated manmade organic constituents are observed among one or more background wells. If so, then the presence of such constituents may be attributed to either (1) the waste disposal unit being monitored or (2) another facility that is located in an area that is hydrogeologically upgradient of the waste disposal unit being monitored.

A prediction limit is not valid when the presence of organic constituents can be attributed to the waste disposal unit being monitored.

If the data are normally distributed, log-normally distributed, or gamma-distributed, then a parametric method may be used to calculate an upper prediction limit.

We note that non-parametric methods may lead to a higher false positive rate with a smaller sample size.

The County shall re-calculate statistical prediction limits whenever the acquisition of additional data suggests that such re-calculations would result in an environmentally meaningful change in those statistical prediction limits. The County may elect to re-calculate statistical prediction limits after each regularly schedule sampling event, but such recalculations are not necessarily warranted after each sampling event.

B.4.2 Other Methods

In the event the County has selected any other method allowed by VSWMR, the County shall obtain the appropriate number of samples and maintain the appropriate level of significance.

B.5 Verification Sampling

Verification sampling (re-sampling) is an integral part of the statistical methodology (USEPA, 1992 section 5); however, it should be considered as a part of the statistical test and based on the site specific condition. Without verification re-sampling, an attempt to minimize the false positive rates leads to very large prediction limits. This increases the false negative rates.

Verification re-sampling shall be conducted within ***30 days*** after determining the need for such re-sampling. Verification re-sampling is a procedure which involves sequential application of a smaller prediction limit, at the same time minimizing both the false positive and false negative rates.

Since the probability of an initial exceedance is very high for the site as a whole (considering only test-wise false positive rates), the verification re-sampling is considered as a part of evaluation to conclude a statistically significant exceedance. Verification re-sampling may involve one or two samples.

C. DATA MANAGEMENT AND EVALUATION

C.1 Data Handling

Test results shall be reported by the laboratory to Loudoun County in both hard copy and electronic format.

The electronic data file shall be imported to a dedicated database set up to handle and store Loudoun County's groundwater monitoring data.

Additional information on groundwater monitoring data handling is provided **APPENDIX GWMP-APP-A**.

C.2 Evaluation of Compliance Monitoring Results

The groundwater monitoring system installed is deemed capable of detecting regulated constituents originating from waste placed in the landfill, or derived from such constituents (for example, via biodegradation within the waste mass).

The organic parameters for which groundwater samples are analyzed include compounds that the USEPA has found to be indicators of industrial or agricultural activity and waste disposal.

Most (but not all) of the listed organic chemicals are man-made, such that and their presence in groundwater is not to be expected in natural settings.

Inorganic constituents analyzed during assessment monitoring include several metal elements that the USEPA considers to pose a health hazard: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, tin, vanadium, zinc.

Inorganic constituents occur naturally in soil and underlying rock. For that reason, their presence in groundwater may be attributed to their natural occurrence at the site, the waste disposal unit being monitored, or both.

As noted above, the facility may establish statistical upper prediction limits for the inorganic constituents observed among facility background wells.

C.2.1 Comparison to Facility Background Concentrations

During each compliance sampling event, the results will be compared directly to facility background concentrations (***point-to-point comparison***).

For those constituents that have been observed among background wells, the results will be compared to their respective statistical prediction limits.

For those constituents that have ***not*** been observed among background wells, for which a statistical prediction limit is not available, the results will be compared to the laboratory ***limit of detection*** (LOD; for those wells in Assessment Monitoring) or the laboratory ***limit-of-quantitation*** (LOQ; for those wells in Detection Monitoring).

When the concentration of a constituent in a downgradient point of compliance exceeds its established facility background concentration, the County may accept the result or may obtain one or more ***verification*** samples.

If the County elects to obtain multiple verification samples, then the County may calculate a 95% confidence interval on the mean of the verification data, and compare the confidence interval to the established facility background concentration.

Facility background concentrations are posted on **TABLE GWMP-IV-1**. The facility should update this table whenever a ***statistical prediction limit*** is re-calculated.

C.2.2 Comparison to Groundwater Protection Standards

During each compliance sampling event, the results will be compared directly to Groundwater Protection Standards (***point-to-point comparison***).

If the facility background concentration (statistical prediction limit) of a given constituent exceeds its Groundwater Protection Standard, then the facility background concentration may serve as the Groundwater Protection Standard for that constituent (contingent upon approval from DEQ).

When the concentration of a constituent in a downgradient point of compliance exceeds its established Groundwater Protection Standard, the County may accept the result or may obtain one or more verification samples.

If the County elects to obtain multiple verification samples, then the County may calculate a 95% confidence interval on the mean of the verification data, and compare the confidence interval to the established Groundwater Protection Standard.

Groundwater Protection Standards are posted on **TABLE GWMP-IV-1**. The facility should update this table whenever a ***Groundwater Protection Standard*** changes.

V. RECORD KEEPING AND REPORTING

The records of all chemical analyses, water-level measurements, and evaluations of data are kept on file in the facility's operating record throughout the active life of the landfill and during the closure and post-closure period.

The complete operating record is kept in the administrative office of the Department of General Services, Waste Management Division in Leesburg, Virginia. The previous 3-years of reports are kept on file at the facility office.

The County reports groundwater monitoring data and evaluations in reports following each regularly schedule compliance monitoring event and in an annual assessment report subsequent to the last sampling event of each calendar year.

A. REQUIRED NOTIFICATIONS

Specific notifications required by VSWMR are presented above, for each specific monitoring program.

B. EVENT GROUNDWATER REPORT

After each regularly scheduled compliance sampling event has been completed, an event monitoring report shall be submitted to DEQ no later than ***120 days*** from the completion of sampling and analysis, unless as allowed under a Director-approved extension.

The following information shall be included in each event report:

- signature page signed by a qualified groundwater scientist (Professional Geologist, Professional Engineer)
- landfill name and permit number
- statement noting whether or not all monitoring points within the permitted network installed to meet the requirements of VSWMR were sampled as required
- calculated rate of groundwater flow during the sampling period as required under subdivision A 4 c of this section;
- the groundwater flow direction as determined during the sampling period, presented as either plain text or graphically as a potentiometric surface map
- statement noting whether or not there were statistically significant increases over background or groundwater protection standards during the sampling period
- supporting statistical calculations (as applicable)
- reference to the date the Director was notified of any increases over GWPS
- laboratory certificate-of-analysis (including dated signature page)
- field records

C. ANNUAL GROUNDWATER REPORT

Loudoun County shall submit a groundwater assessment report to DEQ annually and will continue this practice during the active life of the landfill and during the closure and post-closure period.

The annual groundwater assessment report is to be submitted no later than ***120 days*** from the completion of sampling and analysis for the ***second semi-annual event*** during each calendar.

The following information shall be included in each Annual Groundwater Report:

- landfill name, location (keyed to a USGS topographic map) and permit number
- summary of site history
- physical setting description
- description of uppermost aquifer and well network
- history of ground water monitoring activity on site
- review of past variances or other department approvals
- statement noting that the monitoring well network meets the requirements of VSWMR
- listing of the ground water sampling events undertaken during the previous calendar year
- evaluations of and appropriate responses to the:
- ground water elevation data (illustrated on a potentiometric surface map);
- ground water flow rate;
- ground water flow direction
- ground water analytical data

If the monitoring system is no longer adequate, a discussion will be included describing the actions that will be taken to bring the monitoring system into compliance.

Appendix GWMP-App-A SOP

STANDARD PROCEDURES FOR
GROUNDWATER MONITORING AND SAMPLING

LOUDOUN COUNTY SOLID WASTE MANAGEMENT FACILITY
VIRGINIA SOLID WASTE PERMIT No. 1

Loudoun County
Department of General Services
Waste Management Division

July 28, 2014

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I. OVERVIEW AND STATEMENT OF PURPOSE

This document standardizes the procedures that shall be used by the groundwater sampling and analysis contractor and Loudoun County staff as they implement groundwater monitoring at the Loudoun County Solid Waste Management Facility (LCSWMF). These procedures are formulated based on the nature of the unique conditions that exist at the LCSWMF. This standardization of procedures is intended to help achieve the following:

- Ensure consistency, minimizing the potential for variability caused by sampling and analysis practices.
- Provide accurate and thorough documentation of sampling and analysis practices.
- Preserve the in-situ chemistry of the media sampled.
- Minimize the potential for cross-contamination between samples.

II. CONTRACTOR CHECK-IN, EQUIPMENT PREPARATION, AND CHECK-OUT

Groundwater sampling and monitoring activities at the LCSWMF shall be conducted by an independent contractor. At least one week in advance of any sampling event, the Department of General Services, Waste Management Division (DGSWMD) staff member responsible for implementation of the sampling program will provide a written outline concerning the scope of the sampling event to the contractor. Prior to beginning work, the contractor shall check-in with DGSWMD staff at a pre-arranged time and location which, unless otherwise specified, shall be at the facility. The contractor shall come to the site fully prepared to fulfill the contract responsibilities with all necessary supplies and equipment in good operating condition.

During the check-in meeting, the exact scope of activities shall be coordinated. The sampling order for monitoring wells, a map of sampling locations, and the number and type of samples to be collected will be reviewed. Provisions for duplicate and blank sample collection shall be made. Keys for access shall be provided as necessary. Any special conditions that may exist but have not been previously identified shall be discussed. Prior to beginning sampling activities, equipment shall be assembled, decontaminated using the procedures contained in this document, and calibrated according to the manufactures specifications.

Upon completion of monitoring activities, the contractor shall check-out with DGSWMD staff. During check-out, all field data sheets shall be supplied to DGSWMD staff for duplication, keys shall be returned, and any deviation from the procedures and scope specified during check-in (e.g., certain samples were unattainable, dedicated pump malfunction, well deterioration, etc.) shall be identified in writing by the contractor.

III. PERSONAL PROTECTION AND SAFETY

The contractor shall be responsible for the health and safety of their employees while performing groundwater monitoring tasks at the LCSWMF. While on the landfill property, the contractor's employees shall obey the posted signs and shall wear appropriate shirts, pants, and footwear at all times.

The contractor shall have on site at all times a working cell phone and that phone number shall be provided to the DGSWMD. In case of emergency, the following telephone numbers are provided for reference:

Landfill Scale-house	703-737-8827
Department of General Services, Waste Management Division	703-777-0187
DGSWMD Environmental Monitoring Specialist (cell)	703-507-8023
Poison Control (Fairfax Hospital)	703-698-3600
Police, Fire, Rescue, Ambulance	911

IV. GENERAL PROTOCOLS

General sampling and monitoring protocols to be followed by all sampling and monitoring personnel are listed as follows:

- Equipment shall be operated in a manner consistent with the manufacturer's instructions.

- Field monitoring devices shall be calibrated according to the manufacturer's instructions at the beginning of each working day. Additional calibration shall be performed as often as is necessary to assure accurate readings.

- Any and all objects lowered into a well must be made of approved materials that have been decontaminated according to the procedures in this document. Approved materials are limited to stainless steel, Teflon, and nylon or polypropylene rope.

- Clean plastic sheeting should be placed on the ground at each sampling location to prevent or minimize contaminating sampling equipment or supplies by accidental contact with the ground.

- Prior to both purging and sample collection, a depth to water level measurement shall be taken and recorded prior to placing any object in the well. In addition, a total well depth measurement shall be taken at least annually.

- During a monitoring event, the water levels in all wells to be sampled shall be measured within 24 hours of each other.

- All wells shall be capped and locked when not in use.

- Sampling personnel shall wear clean, new, powder-free, contaminant-free latex or nitrile gloves at each sampling location. Gloves shall be changed any time during sample collection when they come in contact with undesirable objects (e.g., generators, soil, equipment containers, fuel) and/or their cleanliness is compromised. At no time shall gloves come into contact with groundwater as it is being collected in a sample container.

- Handling any loose objects must be done away from the well head to avoid dropping objects into the well.

- Sample collection activities shall proceed progressively from the least contaminated wells to the most contaminated wells. The sampling order of monitoring wells that are active in the current monitoring network will be from first to last: MW-21, MW-199801, WR-02, WR-02D, WR-03, WR-04, WR-05, WR-17, WR-18, WR-19, WR-01, MW-26, MW-12, and MW-34. This well sampling order may be changed at the discretion of the DGSWMD based on analytical results.

- Field logs and forms shall be maintained for each sampling location.

V. EQUIPMENT DECONTAMINATION

At a minimum, all equipment used at the site that is not dedicated to a specific sampling location or will not be disposed of between sampling locations shall be decontaminated between uses at each different sampling location. In addition, some dedicated equipment shall be decontaminated as specified in this document.

Decontamination of equipment shall be performed at least 30 feet away from any surface water or monitoring well, and a special location for decontamination may be specified by the DGSWMD. Decontamination fluids may be containerized and disposed of into the leachate pretreatment system or may be discharged on the ground at least 30 feet from any surface water or monitoring well.

The standard decontamination procedure, at a minimum, shall be as follows:

1. Wash the equipment with a nonphosphate detergent;
2. Rinse the equipment with de-ionized or organic-free water;
3. Rinse the equipment with methanol or isopropanol; then
4. Rinse the equipment with organic-free reagent water.

VI. MEASURING GROUNDWATER LEVELS AND TOTAL WELL DEPTH

Prior to purging a well, a depth to water level measurement and total well depth (at least annually) shall be taken and recorded prior to placing any object in the well.

A. Required Equipment

The following is a list of the minimum required equipment and supplies to be provided by the contractor for use during groundwater monitoring activities:

1. QED Products, Inc., SAMPLE PRO Water Level Meter, Model 6000, or equivalent water level meter;

2. Decontamination equipment as specified in Section V of this document;

3. New, powder-free, contaminant-free, disposable, latex or nitrile gloves;

4. Paper towels, clean; and

5. Field notebooks and forms.

B. Water Level and Total Well Depth Procedure

A measurement reference point (MRP) should be visible once the protective steel casing covering the well is unlocked. The MRP is the permanent mark on top of the PVC casing (notch marked black). The elevation of the MRP has been established by professional survey. The procedure for water level monitoring is as follows.

1. Turn the water-level meter "on" and lower the decontaminated probe into the well until the audible alarm sounds. Repeatedly raise and lower the probe several inches (causing the alarm to alternately sound on and off) to assure that the probe is just at the down hole water level. Each time the alarm sounds, visually note the tape measure reading at the MRP and reduce the distance the tape is raised and lowered while still causing the alarm to go on and off. Eventually, the tape will be moved only a fraction of an inch up and down to cause the alarm to sound on and off.

2. When the probe is just at the down-hole water level, note and record the tape measure reading at the MRP to the nearest 0.01 foot as the "depth to water" on the field data sheet.

3. Total well depth is measured in a like manner as depth to water except that the audible alarm is set to “off.” Total depth is measured by noting the tape measure reading at the MRP when the probe is allowed to just touch the well bottom. Note and record the tape measure reading at the MRP to the nearest 0.01 foot as the "total depth" on the field data sheet.

4. As the tape is withdrawn from the well, wipe it with a clean paper towel, and then decontaminate the tape in accordance with Section V of this document prior to use at the next well.

VII. MONITORING WELL PURGING

A. Required Equipment

In addition to the items in Section VI.A above, the following is a list of the minimum required equipment and supplies to be provided by the contractor for use during groundwater purging activities:

1. Properly calibrated field meters suitable for measurement of pH, conductivity, and temperature;

2. Decontamination equipment and supplies as specified in Section V of this document;

3. 3000-watt, minimum, electrical generator capable of 110 and/or 220 volts and fuel;

4. Extension cord, 20-foot length minimum;

5. Grundfos 110- and/or 220-volt pump control box;

6. Pump power lead;

7. Teflon or stainless steel bailers and braided nylon or polypropylene rope (for use only by pre-approval in the event of pump failure);

8. New, clean, unused, contaminant-free, vinyl tubing for purging; and

9. Containers for purge water.

B. Temperature, pH, and Specific Conductance Measurements

Field measurements of temperature, pH, and specific conductance shall be taken whenever a groundwater sample for laboratory analyses is obtained. At the start of purging, after each well volume purged, after purging, and just before the collection of samples for laboratory analyses, a groundwater sample will be obtained in a clean container by the same method as is used for sample collection. Ensure that the temperature of the container (i.e., glass heated by sunshine) does not influence the temperature of the sample by rinsing the container with fresh groundwater once or twice prior to collecting the sample for field measurements. The pH, temperature, and specific conductance measurements of the groundwater sample shall be determined by portable field

instruments immediately after the sample is obtained and those values shall be recorded in the field notes. Field analyses shall not be performed on samples designated for laboratory analyses.

C. Calculation of Purge Volume

Prior to obtaining groundwater analytical samples from a well, standing water shall be purged from the well, allowing formation water representative of in-situ conditions to flow into the well for sampling. A minimum of three well volumes of water shall be purged from each well prior to sampling. The measurements and calculations used to determine the purge volume and to measure the actual volume purged from the well shall be recorded on the appropriate field data sheet. In order to determine the exact volume of water to be purged from a given well, the volume of standing water in the well must be calculated and multiplied by three as follows.

1. The "depth to water" is measured (see Section VI of this document) and "total well depth" will be recorded from the respective well construction log. The height of the water column is calculated as the difference between these measurements ("total well depth" minus "depth to water").

2. The cross-sectional area of the well is calculated by the square of the well radius (in feet), multiplied by 3.1416 (area of a circle = πr^2).

3. The volume of standing water in the well is then calculated to be the height of the water column (in feet) multiplied by the cross-sectional area of the well (in square feet) times a factor to convert cubic feet into gallons (7.48 gallons/cubic foot).

4. The minimum volume to be purged from the well prior to sampling is three times the calculated volume of water standing in the well.

Purge volume (in gallons) = $3 \times h \times \pi r^2 \times 7.48$, where:
r = well casing radius (in feet),
h = height of water column (in feet), and
$\pi = 3.1416$.

D. Purging Procedure

Efforts shall be made such that the purge rate for all wells shall not exceed their recovery rate. For wells with slow recovery, attempts shall be made to avoid purging them to dryness (e.g., slowing the purge rate). If the well goes dry when

purging at or below a one gallon per minute pump rate before three well volumes can be removed, then purging will be curtailed and sample collection may begin once the water level has recovered sufficiently that an adequate volume of water exists in the well for sampling. Groundwater analytical samples shall be collected from the well as soon as possible after the well has been purged, but in no case shall samples be collected later than 24 hours after the well is purged.

Each groundwater monitoring well is equipped with a Grundfos MP-1 Redi-Flo2 two-inch purge/sampling pump. The procedures for using the pump to purge the well are as follows.

1. The generator shall be placed at least 20 feet downwind of the monitoring well.

2. Connect the control box to the generator.

3. Connect the power lead from the control box to the well seal power inlet.

4. Remove the dedicated sampling tube from its housing in the well casing, and connect the sampling tube to the pump discharge.

5. If necessary, connect a length of clean, unused, vinyl tubing to the sampling tube.

6. Start the generator, turn the control box power switch to “on,” and slowly rotate the “cycles” knob clockwise until the desired purge flow is reached.

7. Purge the correct volume of water from the well to a container of a known volume as described in Section VII.E of this document. Unless otherwise specified, purge water from the wells may be discharged to the ground as described in Section VII.F of this document. Purge water from wells MW-12, MW-26, and MW-34, which have levels of contamination above background, shall be containerized and discharged to the leachate pre-treatment system as described in Section VII.F.

8. Turn off the pump by setting the control box power switch to “off” and remove and dispose of the vinyl discharge tubing.

9. Remove the dedicated sampling tube from the pump discharge, decontaminate the sampling tube in accordance with the procedures in

Section V. of this document, and, while wearing new gloves, reconnect the sampling tube to the pump discharge.

10. Ensure that all appropriate information has been recorded in the field log.

E. Determination of Volume Purged

During well purging, the actual volume of groundwater purged from each well shall be determined by containerizing the purge water in a container(s) of known volume. The rate of discharge shall also be determined by timing how fast a container of known volume is filled as follows.

1. Record the start time of purging. Purge the well into a container(s) of known volume.

2. Record the end time of purging. Determine the total volume of water purged from the well in gallons. Divide the time it took to purge the well in minutes by the known volume of purge water in gallons to arrive at a pump rate (in gallons per minute). Record the actual volume of groundwater purged and the calculated rate of discharge.

F. Discharge and Disposal of Purge Water

Purged water shall be initially containerized in order to determine the actual volume purged as described in Section VII.E., above. Purge water may then be discharged to the ground at least 30 feet from any wellhead or surface water body unless special disposal of purge water is specified by the DGSWMD. Purge water shall not be disposed on the ground any time the well is known to contain contaminants attributable to the landfill in concentrations that exceed background levels. Currently, purge water from wells MW-12, MW-26, and MW-34 shall be containerized and disposed of into the leachate management system prior to the treatment system via the manhole specified by the DGSWMD. The DGSWMD may require that purge water from additional wells be containerized and disposed of to the leachate system depending on the results of analytical data.

G. Emergency Use of Hand Bailer

In the event of a malfunction of the dedicated well pump, the contractor shall immediately notify the DGSWMD Environmental Monitoring Specialist. Under no circumstances shall the contractor attempt to remove or repair a dedicated well pump. In the event that a well pump fails and a back-up pump cannot be

used, the DGSWMD may authorize, at its discretion, the use of a hand bailer. The contractor shall only use a hand bailer if pre-approved by the DGSWMD Environmental Monitoring Specialist. Bailers shall be limited to bottom check-valve, Teflon or stainless steel, attached to braided nylon or polypropylene rope. The procedure for using a bailer is as follows.

1. Attach the rope to the bailer using an adequate knot(s). The rope and bailer shall not be allowed to come into contact with the ground or any potentially contaminated surface before or during the bailing process.

2. The bailer shall be lowered into and retrieved from the well water slowly.

3. Whenever a groundwater sample is to be retrieved with a bailer, the bailer shall be lowered to within 5 feet of the base of the well before being retrieved.

4. The purge volume shall be quantified by pouring the bailed water into a container of known volume. The required purge volume in gallons is divided by the container volume in gallons resulting in the number of containers required to be filled to complete the purge process.

VIII. SAMPLE COLLECTION AND DOCUMENTATION

A. Required Equipment

In addition to those items listed in Sections VI.A and VII.A above, the following is the minimum required equipment and supplies to be provided by the contractor for use during groundwater sampling activities:

1. Pre-cleaned, laboratory-grade sample containers;
2. Sample storage containers;
3. Sample preservatives;
4. pH strips;
5. Analyte-free water;
6. Ice chests (i.e., coolers) and ice;
7. Packing materials; and
8. Sample labels and custody seals and forms.

B. General Sample Collection Procedures

Sample collection activities shall proceed progressively from the least contaminated wells to the most contaminated wells. The sampling order of monitoring wells that are active in the current monitoring network will be from first to last: MW-21, MW-199801, WR-02, WR-02D, WR-03, WR-04, WR-05, WR-17, WR-18, WR-19, WR-01, MW-26, MW-12, and MW-34. This well sampling order may be changed at the discretion of the DGSWMD based on analytical results.

At each sampling point, after purging and prior to collecting any groundwater samples, the dedicated well sampling tube must be decontaminated (as described in Section VII.D.9. above) and a new, clean pair of non-powdered, disposable gloves shall be donned. The gloves shall not come into contact with the groundwater being sampled and shall be changed at any time during sample collection when their cleanliness is compromised. At each sampling location, samples for volatile organics shall be collected first, then semi-volatiles, then other organics, and finally the inorganic samples shall be collected last. The procedures for collecting groundwater samples from the dedicated well pump are as follows.

1. To sample, turn the control box power switch to “on,” slowly rotate the “cycles” knob clockwise until the flow rate is no more than 100 mL/minute.

2. Before collecting any samples, purge an additional gallon of groundwater from the well in order to clear the pump discharge and sampling tube of any residual water.

3. Collect the required number of samples directly into the appropriate pre-labeled containers using the procedures for specific analytes described in Sections VIII.C though J. below. The containers, preservation techniques, and holding times for each type of chemical analysis are also specified in Table GWMP-A-1.

4. If a preservative is required, check the adequacy of sample preservation in the field for all samples except for the samples collected for VOC analysis. Samples preserved using a pH adjustment (except VOCs) may be checked using pH strips by pouring a small volume of sample over the strip. Do not place the strip in the groundwater sample. Add additional preservative as necessary to achieve adequate preservation.

5. Immediately place any sample collected for laboratory analysis into a covered ice chest and maintain the sample at a temperature of 4°C (± 2°C) until laboratory analysis. Sample containers shall be bagged to prevent wetting of sample labels.

6. Ensure that all field notes and forms have been filled out.

7. Remove the dedicated sampling tube and replace the tube in the well casing housing, disconnect power lead, lock well cover, dismantle generator and control box setup.

8. Collect and containerize any discarded and disposable supplies and remove the materials from the area for proper disposal.

C. VOC Sample Collection and Preservation

Groundwater samples collected for analysis of volatile organic compounds (VOCs) shall be collected in at least three 40 mL glass VOA vials with Teflon septum caps that are filled to capacity with no air bubbles. Each vial shall contain approximately 0.5 mL of 1:1 hydrochloric acid (HCL) before being filled with groundwater. To collect the sample, fill the vial slowly, without aerating the sample, until a slight mound of water stands above the top of the vial. Carefully cap the vial such that the mound of water prevents air bubbles from entering the vial during capping. Gently flip the vial a few times to ensure that the sample is mixed with the acid preservative. Invert each vial, gently tap it several times with the heel of the hand, and check for air bubbles rising to the base of the vial.

If air bubbles are observed in the vial, discard the sample and select a new vial in which to collect a new sample. Immediately place each vial in an ice chest with a cover, and maintain the samples at a temperature of 4°C (± 2°C) until laboratory analysis.

D. SVOC Sample Collection and Preservation

Groundwater samples collected for analysis of semi-volatile organic compounds (SVOCs) shall be containerized in at least two, one-liter amber glass bottles. No preservative is required. Seal the bottles, immediately place each bottle in a cooler with a cover, and maintain the samples at a temperature at 4°C (± 2°C) until laboratory analysis.

E. Pesticide and PCB Sample Collection and Preservation

Groundwater samples collected for analysis of pesticides and PCBs shall be containerized in at least two, one-liter amber glass bottles. No preservative is required. Seal the bottles, immediately place each bottle in a cooler with a cover, and maintain the samples at a temperature at 4°C (± 2°C) until laboratory analysis.

F. Herbicide Sample Collection and Preservation

Groundwater samples collected for analysis of herbicides shall be containerized in at least two, one-liter amber glass bottles. No preservative is required. Seal the bottles, immediately place each bottle in a cooler with a cover, and maintain the samples at a temperature at 4°C (± 2°C) until laboratory analysis.

G. Metals (excluding Mercury) Sample Collection and Preservation

Groundwater samples collected for analysis of metals, excluding mercury, shall be collected in at least one 250 mL plastic bottle. Before sealing the sample container, the sample must be acidified to a pH of less than two by adding nitric acid (HNO_3). Ensure the pH has been correctly adjusted, seal the container, immediately place the sample in a cooler with a cover, and maintain the sample temperature at 4°C (± 2°C) until laboratory analysis.

H. Mercury Sample Collection and Preservation

Groundwater samples collected for analysis of mercury shall be collected in at least one 250 mL plastic bottle. Before sealing the sample container, the sample must be acidified to a pH of less than 2 by adding nitric acid (HNO_3). Ensure the pH has been correctly adjusted, seal the container, immediately place the

sample in a cooler with a cover, and maintain the sample temperature at 4°C (± 2°C) until laboratory analysis.

I. Cyanide Sample Collection and Preservation

Groundwater samples collected for analysis of cyanide shall be collected in at least one 250 mL plastic bottle. Before sealing the sample container, the sample must be acidified to a pH of greater than 12 by adding sodium hydroxide (NaOH). Ensure the pH has been correctly adjusted, seal the container, immediately place the sample in a cooler with a cover, and maintain the sample temperature at 4°C (± 2°C) until laboratory analysis.

J. Sulfide Sample Collection and Preservation

Groundwater samples collected for analysis of sulfide shall be collected in at least one 250 mL plastic bottle. Before sealing the sample container, the sample must be preserved with Zinc Acetate and acidified to a pH of greater than 9 by adding sodium hydroxide (NaOH). Ensure the pH has been correctly adjusted, seal the container, immediately place the sample in a cooler with a cover, and maintain the sample temperature at 4°C (± 2°C) until laboratory analysis.

K. QA/QC Samples

During each groundwater sampling event, the following QA/QC samples shall be collected: a trip blank, a field blank, an equipment blank, and a blind duplicate. All QA/QC samples shall be labeled such that the laboratory cannot determine the true source of the samples. These QA/QC samples shall be preserved as appropriate for the specific analysis, transported with all other groundwater samples, and analyzed for the same constituents as the ground water samples.

1. Trip Blank—One trip blank shall be collected during each groundwater sampling event. Trip blanks shall be collected by filling a set of sample containers at the laboratory with analyte-free water. Trip blanks shall be transported to the field and kept with all other samples in an un-opened condition.

2. Field Blank—One field blank shall be collected during each groundwater sampling event. Field blanks shall be collected about mid-way through the sampling event by bringing analyte-free water to the site, filling a set of sample containers with that water while on site, and subsequently transporting the blank samples along with all other samples.

3. Equipment Blank—One equipment blank shall be collected for sampling equipment used that is not dedicated to a specific well. Equipment blanks shall be collected prior to the insertion of a water level meter into a monitoring well. Equipment blanks shall be collected after the equipment has been decontaminated and prior to sampling. The equipment blank is collected by rinsing one or several pieces of equipment (i.e. water level probe, bailer, purge pump, etc.) in a minimal amount of analyte-free water. This water shall be collected into sampling containers for subsequent transport and analysis.

4. Blind Duplicate—One blind duplicate will be collected for every ten wells sampled. Duplicate samples shall be collected by filling separate but identical sample containers (except for the label) in immediate succession of the actual groundwater sample. The duplicates should be filled without shutting off the sampling pump, or in case of emergency bailer, sampling from the same bailer of water as the actual sample. No decontamination of any equipment shall be performed between actual sample collection and duplicate sample collection.

L. Sample Labeling and Storage

Each sample container shall be clearly labeled before sample collection such that the labels will not be altered, destroyed, or become unattached if wetted. Sample labels on each container shall be waterproof with waterproof ink or alternatively, covered with transparent, waterproof tape. The following information shall be included on each sample label, at a minimum: date and time of collection, site location, unique sample identification number, any preservative added, and analyses requested.

Sample storage begins immediately after the sample is collected and ends when the laboratory sample analysis begins. Once a sample is sealed in its container, it shall not be re-opened except by laboratory personnel during analysis. All samples must be stored and transported in a covered cooler with ice and maintained at 4°C (± 2°C). Groundwater samples must not be frozen.

Sample transport containers shall be sealed with strapping tape and a tamper-proof custody seal. The seal shall be placed such that the transport container cannot be opened without breaking the seal. All samples shall be maintained under strict chain of custody.

M. Chain of Custody

A chain of custody form(s) shall accompany the samples and be maintained during sample transportation. All entries on the chain of custody form must be made in indelible ink. Each time the sample is relinquished or received, each party involved must check the integrity of the sample transport container and sign the form indicating the time and date of sample transfer or receipt. The chain of custody form must document the following information, at a minimum:

1. Each sample's unique identification number;
2. Identification of sampling location/well;
3. Time and date of sample collection;
4. Name(s) and signature(s) of the sample collector(s);
5. Media sampled (i.e., groundwater);
6. Number and type of containers;
7. Requested analyses for each sample;
8. Preservatives; and
9. Signature(s) and date(s) for each transmittal of sample possession.

N. Analytical Protocols

Samples should be delivered to the analytical laboratory as soon as possible after collection. Chemical analyses of all samples shall be conducted in accordance with the preservation, holding times, and methods specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846."

O. Records Management

A field log shall be maintained for each well monitoring/sampling event. Each collected sample, including QA/QC samples, shall be documented in the field log and on other required forms. Entries shall be made with waterproof ink and written legibly. All corrections to record-keeping errors shall be made by one line marked through the error and initialed; erasures or other markings are not allowed. A copy of the field log and forms shall be provided to the DGSWMD during the check-out meeting. The field log shall document the following items, at a minimum, for each sampling location:

1. Names of all personnel collecting samples;
2. Sampling location and unique well identification;
3. Weather conditions;
4. Field instruments used and calibration information;
5. Well depth;

6. Static water level depth and measurement technique;
7. Presence and thickness of immiscible layers, if detected, and detection method;
8. Field measurement data (pH, specific conductance, temperature);
9. Well purging procedure and equipment;
10. Calculated purge volume, actual volume purged, and pumping rate;
11. Time and date well purged;
12. Information on well recharge and recharge time;
13. Time and date each sample was collected;
14. Well sampling sequence;
15. Sample withdrawal procedure and equipment;
16. Type and number of sample containers and preservatives used;
17. Sample identification numbers;
18. QA/QC samples collected;
19. Observable characteristics of samples (e.g., color, turbidity);
20. Sample analyses requested;
21. Decontamination procedures;
22. Condition of the well (interior and exterior);
23. Any equipment malfunctions; and
24. Any other pertinent information, observations, or deviations.

IX. REFERENCES

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

U.S. EPA, 1980. "Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities," SW-611.

U.S. EPA, 1985. "Practical Guide for Groundwater Sampling," EPA/6001 2-85/104.

U.S. EPA, 1992. "RCRA Ground-water Monitoring: Draft Technical Guidance," EPA/530-R-93-001.

U.S. EPA, 1986. "RCRA Groundwater Monitoring Technical Enforcement Guidance Document," OSWER-9950.1.

U.S. EPA, 1989. "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities," EPA/530-SW-89-026.

U.S. EPA, November 1990. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846.

TABLE GWMP-A-1
Sample Containers, Preservation, and Holding Times

Parameter	Sampling Container	Preservation	Holding Time
Volatile Organic Compounds (VOCs)	Glass VOA Vial, 40mL x 3	HCl pH <2 Cool 4ºC	14 days
Semi-volatile Organic Compounds (SVOCs)	Amber Glass, 1 liter x 2	Cool 4ºC	7 days
Inorganics-Metals (except Mercury)	Plastic, 250 mL	HNO3 pH <2 Cool 4ºC	6 months
Mercury	Plastic, 250 mL	HNO3 pH <2 Cool 4ºC	28 days
Cyanide	Plastic, 250 mL	NaOH pH>12 Cool 4ºC	14 days
Sulfide	Plastic, 250 mL	NaOH + Zn acetate pH>9 Cool 4ºC	7 days
Pesticides & PCBs	Amber Glass, 1 liter x 2	Cool 4ºC	7 days
Herbicides	Amber Glass, 1 liter x 2	Cool 4ºC	7 days

Attachment 2

Chapter 1080 Surface Water Monitoring Plan, LCSWMF

SURFACE WATER MONITORING PLAN

LOUDOUN COUNTY SOLID WASTE MANAGEMENT FACILITY
VIRGINIA SOLID WASTE PERMIT No. 1
Permit Amendment No. 9

Prepared for

County of Loudoun, Virginia
Office of Solid Waste Management

Prepared By

Solid Waste Services, LLC
Reston, Virginia

and

County of Loudoun, Virginia
Office of Solid Waste Management

September 28, 1998
Revised Dec. 1, 1998; Jan. 11, 2000; March 15, 2006; and September 2, 2008

TABLE OF CONTENTS

I. OVERVIEW AND STATEMENT OF PURPOSE

This document standardizes the procedures used by personnel conducting surface water monitoring and sampling at the Loudoun County Solid Waste Management Facility (LCSWMF) as required by Chapter 1080 of the Codified Ordinances of Loudoun County (Chapter 1080). This standardization of procedures is intended to help achieve the following objectives:

- Establish accurate and thorough sampling and analysis practices;
- Preserve the in-situ chemistry of the media sampled; and
- Meet the requirements of §1080.17(d).

II. COORDINATION

Surface water sampling activities at the LCSWMF shall be conducted by the Loudoun County Office of Solid Waste Management (OSWM) staff or a qualified independent contractor. Analyses of surface water collected from the LCSWMF shall be conducted by a qualified independent laboratory. It is acceptable to have the same independent contractor conduct the sampling activities, as well as the analysis of the collected samples.

If sampling is to be completed by a contractor, then at least one week in advance of any sampling event, the OSWM staff member responsible for implementation of the sampling program will notify the contractor of the need to conduct the surface water sampling and analyses. Prior to conducting the sampling, the sampling contractor and laboratory shall communicate with the OSWM Environmental Monitoring Specialist to clearly understand the exact scope of work required by the County. Logistics involving hours of work, obtaining any special supplies, site keys, if required, and the date and time of the sampling shall be coordinated. The sampling contractor shall come to the site fully prepared to fulfill the contract responsibilities with all supplies and equipment in good operating condition.

III. PERSONAL PROTECTION AND SAFETY

If a qualified contractor conducts the surface water monitoring, the contractor shall be responsible for the health and safety of its employees while performing this task at the LCSWMF. While on the landfill property, the contractor's employees shall obey the posted signs and shall wear appropriate shirts, pants, and footwear at all times.

The contractor shall have on site at all times a working cell phone, and that phone number shall be provided to the OSWM. In case of emergency, the following telephone numbers are provided for reference:

Police, Fire, Rescue, Ambulance	911
Poison Control (Fairfax Hospital)	703-698-3600
Landfill Scale-house	703-771-5500
Office of Solid Waste Management	703-777-0187
OSWM Environmental Monitoring Specialist	703-507-8023

IV. EQUIPMENT DECONTAMINATION

At a minimum, all equipment used at the site that is not dedicated to a specific sampling location or will not be disposed of between sampling locations shall be decontaminated between uses at each different sampling location.

Decontamination of equipment shall be performed at least 30 feet away from any surface water or groundwater monitoring well, and a special location for decontamination may be specified by the OSWM. Decontamination fluids may be containerized and disposed of into the leachate pretreatment system or may be discharged on the ground at least 30 feet from any surface water or monitoring well.

The standard decontamination procedure, at a minimum, shall be as follows:

1. Wash the equipment with a nonphosphate detergent;
2. Rinse the equipment with de-ionized or organic-free water;
3. Rinse the equipment with methanol or isopropanol; then
4. Rinse the equipment with organic-free reagent water.

V. SAMPLING FREQUENCY, LOCATION, AND PARAMETERS

A. Sampling Frequency

Surface water samples shall be collected once during each calendar quarter (January–March, April–June, July–September, October–December). The resulting report shall be submitted to the OSWM Compliance Specialist by no later than April 30, July 31, October 31, and January 31 for the preceding quarter.

B. Sampling Locations

Surface water is managed in four sediment basins identified as SB-1, SB-3, SB-4, and SB-5. Basin SB-1 is located on the northeast corner of the site; SB-3 is located at the northwest corner; SB-4 is east-central; and SB-5 is on the southern-most portion of the site. In addition, there is a discharge pipe, DP-1, that drains storm water from the recycling drop-off and citizen convenience areas on the northeastern portion of the site. All surface water sampling locations are shown on Figure 1.

In accordance with Chapter 1080, one surface water sample must be collected from within each of the four sedimentation basins. In addition, if discharge is present at the time of the sampling event, then samples must also be collected from the effluent of each surface water management structure or drainage device. If no discharge is present, then that fact shall be annotated in the field log and included in the subsequent report. Surface water sampling locations and corresponding sample identification numbers are shown in Table 1 below. All surface water samples collected for laboratory analyses shall be identified using the surface water sample identification number shown in the last column of Table 1.

TABLE 1
Surface Water Sampling Locations

Storm Water Structure ID	Location	Surface Water Sample ID
SB-1	Northeast corner of facility	SB1-IN (within basin)
		SB1-OUT (basin discharge)
SB-3	Northwest corner of facility	SB3-IN (within basin)
		SB3-OUT (basin discharge)
SB-4	East-central portion of facility	SB4-IN (within basin)
		SB4-OUT (basin discharge)
SB-5	South-central portion of facility	SB5-IN (within basin)
		SB5-OUT (basin discharge)
DP-1	Northeast corner near recycling area	DP1-OUT (pipe discharge)

C. Analytical Parameters

Surface water samples collected at each sampling location shall be analyzed for the parameters required under §1080.17(d)(2) and shown in Table 2 below using U.S. EPA-approved analytical methods for surface water.

TABLE 2
Surface Water Sample Analytical Parameters

Parameter	Analytical Method*
Chemical Oxygen Demand (COD)	EPA 410.3 / 410.4
Biological Oxygen Demand (BOD)	SM 5210B
Total Organic Carbon (TOC)	SM 5310C
Total Suspended Solids (TSS)	SM 2540D
pH	EPA 150.1
Nitrate as Nitrogen (NO_3N)	EPA 300.0 / SM 4500
Ammonia Nitrogen (NH_5N)	EPA 350.1 / SM 4500
Phosphorus, Total	EPA 365.1 / SM 4500
Arsenic, Total	EPA 200.7 / 200.8
Barium, Total	EPA 200.7 / 200.8
Cadmium, Total	EPA 200.7 / 200.8
Chromium, Total	EPA 200.7 / 200.8
Lead, Total	EPA 200.7 / 200.8
Mercury, Total	EPA 245.1 / 245.7
Selenium, Total	EPA 200.7 / 200.8
Silver, Total	EPA 200.7 / 200.8
**Other U.S. EPA-approved methods for surface water analysis may be used.*	

VI. SAMPLING PROCEDURES

Surface water sampling shall be coordinated with the OSWM Environmental Monitoring Specialist and conducting during regular landfill operating hours. The sampling contractor shall arrive at the site with all equipment and supplies necessary to complete the sampling in accordance with this Plan.

A. Required Equipment and Supplies

The following is the minimum required equipment and supplies to be provided by the contractor for use during surface water sampling activities:

1. Properly calibrated pH meter, decontaminated;
2. Decontamination supplies;
3. Sampling collection device(s), decontaminated;
4. Pre-cleaned, laboratory-grade sample containers;
5. Sample preservatives and pH strips;
6. Ice and ice chests (i.e., coolers) for sample storage and transport;
7. Packing materials;
8. Sample labels and custody seals and forms; and
9. Field logs.

B. Sample Containers, Preservation, and Holding Times

Sample containers, volumes, preservation, and holding times for each parameter shall be as specified in Table 3 below.

TABLE 3
Sample Containers, Preservation, and Holding Times

Parameter	Sampling Container	Preservation	Holding Time
COD	Plastic, 500 mL	H2SO4 ph <2, Cool 4°C	28 days
BOD	Plastic, 1 L	Cool 4°C	48 hours
TOC	Plastic, 500 mL	H2SO4 ph <2, Cool 4°C	28 days
TSS	Plastic, 1 L	Cool 4°C	7 days
pH	NA (field test)	NA	NA
Nitrate as Nitrogen	Plastic, 250 mL	Cool 4°C	48 hours
Ammonia Nitrogen	Plastic, 250 mL	H2SO4 ph <2, Cool 4°C	28 days
Phosphorus, Total	Plastic, 250 mL	H2SO4 ph <2, Cool 4°C	28 days
RCRA Metals (except Hg)	Plastic, 250 mL	HNO3 pH <2, Cool 4°C	6 months
Mercury (Hg)	Plastic, 250 mL	HNO3 pH <2, Cool 4°C	28 days

C. General Sample Collection Procedures

Water samples shall be collected from each of the surface water monitoring locations, as well as from the effluent of the locations if discharge is present (see sampling locations Figure 1 and Table 1) and analyzed for the parameters shown in Table 3 above. During each quarterly sampling event, a minimum of four (4) samples should be collected if no discharge is present, and a maximum of nine (9) samples should be collected if discharge is present.

At each sampling point, prior to collecting any samples, a new, clean pair of non-powdered, disposable gloves shall be donned. The gloves shall be changed at any time during sample collection when their cleanliness is compromised. At each sampling location, a water sample for measurement of pH shall be collected and discarded, then the analytical samples shall be collected. The following is the general procedure to be used in the collection of surface water samples.

1. Calibrate any field equipment (e.g., pH meter). Meters should be calibrated in accordance with manufacturer's instructions. Record the calibration information.

2. Collect a water sample from the sampling location for field measurement of pH using a decontaminated pH meter, record the result, and discard the water sample.

3. Collect the analytical samples from the sampling location either by directly filling the container from the surface water body/discharge being sampled or by decanting the water from a decontaminated collection device (e.g., stainless steel scoop or bailer). Water samples shall not be collected directly into laboratory containers that have been pre-preserved.

4. If a preservative other than ice is required, check the adequacy of sample preservation in the field. Samples preserved using a pH adjustment may be checked using pH strips by pouring a small volume of sample over the strip. Do not place the strip in the water sample. Add additional preservative as necessary to achieve adequate preservation.

5. If the sample containers were not pre-labeled, fill out and apply sample labels to all containers.

6. Immediately place any sample collected for laboratory analysis into a covered ice chest and maintain the sample at a temperature of 4°C (± 2°C) until laboratory analysis. Sample containers shall be bagged to prevent wetting of sample labels.

7. Ensure that all field notes and forms have been filled out.

D. Sample Labeling and Storage

Each sample container shall be clearly labeled such that the labels will not be altered, destroyed, or become unattached if submersed or wetted. Sample labels on each container shall be waterproof with waterproof ink, or alternatively, covered with transparent, waterproof tape. The following information shall be included on each sample label, at a minimum:

- Site name;
- Date and time of collection;
- Sample identification number, in accordance with Table 1 above;
- Preservative added, if any; and
- Analyses requested.

Sample storage begins immediately after the sample is collected and ends when the laboratory sample analysis begins. Once a sample is sealed in its container, it shall not be re-opened except by laboratory personnel during analysis. All samples must be stored and transported in a covered cooler with ice and maintained at a temperature of 4° C (± 2° C). Water samples must not be frozen.

Samples shall be delivered to the analytical laboratory as soon as possible after collection. Sample transport containers shall be sealed with strapping tape and a tamper-proof custody seal. The seal shall be placed such that the transport container cannot be opened without breaking the seal. All samples shall be maintained under strict chain of custody.

E. Chain of Custody

A chain of custody form(s) shall accompany the samples and be maintained during sample transportation. All entries on the chain of custody form must be made in indelible ink. Each time the sample is relinquished or received, each party involved must check the integrity of the sample container and sign the form indicating the time and date of sample transfer or receipt. The chain of custody form must document the following information, at a minimum:

- Site name;
- Sample identification numbers;
- Time and date of sample collection;
- Name(s) and signature(s) of the sample collector(s);

- Media sampled (i.e., surface water);
- Number and type of containers;
- Requested analyses for each sample;
- Preservatives; and
- Signature(s) and date(s) for each transmittal of sample possession.

F. Records Management

A field log shall be maintained for each sampling event. Each collected sample shall be documented in the field log and on other required forms. Entries shall be made with waterproof ink and written legibly. All corrections to record-keeping errors shall be made by one line marked through the error and initialed; erasures or other markings are not allowed. A copy of the field log and any forms shall be provided to the OSWM after sampling and prior to leaving the site. The field log shall document the following items, at a minimum, for each sampling location:

- Site name;
- Names of all personnel collecting samples;
- Sampling location;
- Weather conditions;
- Field instruments used and calibration information;
- Field measurement data (pH);
- Presence or absence of water discharge;
- Time and date each sample was collected;
- Sample collection procedure and equipment;
- Type and number of sample containers and preservatives used;
- Sample identification numbers;
- Observable characteristics of samples (e.g., color, turbidity);
- Sample analyses requested;
- Decontamination procedures;
- Any equipment or sampling problems; and
- Any other pertinent information, observations, or deviations.

VIII. REPORTING

A. Laboratory Reporting

The contracted laboratory shall submit the analytical data sheets for the surface water samples to the OSWM within 14 calendar days of receipt of samples. The data sheets shall include, at a minimum, the following information:

- Site name;
- Date of sample collection;
- Sample identification numbers;
- Date of sample receipt at the laboratory;
- Date of sample analyses;
- Preservatives;
- Results of analyses for all samples collected during the event;
- Reporting limit for each analytical parameter; and
- Documentation of any deviation from the sample preservation, handling, transportation and analysis protocols outlined in this document.

B. Sampling Contractor Reporting

Within 21 calendar days of completion of the sampling event, the contractor that conducted the sampling shall prepare a written report addressed to the OSWM Compliance Specialist. The report shall include the following information:

- Date and time of sample collection;
- Weather conditions;
- Procedures followed during the sampling event;
- Conditions of the effluent outfalls and location of the samples collected;
- Field measurement results;
- Number and type of sample containers and preservatives;
- Sample identification numbers;
- Any problems or deviations from the sampling plan; and
- Laboratory analytical results;
- Laboratory data sheets (Certificates of Analysis);
- Chain-of-custody forms; and

- Copy of all field notes and forms.

Reports of quarterly surface water monitoring shall be provided to the OSWM Compliance Specialist by April 30, July 31, October 31, and January 31, for the preceding quarter.

S:\loudoun\Woods Road Permit Amendment-Task 6\Figures\20080724 Surface Water Sampling Fig 1 8/14/2008

LEGEND:

- WASTE DISPOSAL LIMITS
- DISPOSAL UNIT BOUNDARY
- WASTE MANAGEMENT FACILITY BOUNDARY
- WETLANDS DELINEATION DATED NOVEMBER 1995
- FEMA 100-YEAR FLOODPLAIN DELINEATION DATED NOVEMBER 1985

N

0' 250' 500'

SCALE IN FEET

NOTES

1 HORIZONTAL CONTROL BASED ON NAD 1983.
2 VERTICAL CONTROL BASED ON NAVD 1988

SAMPLING POINTS

SEDIMENT BASIN SB-1
SEDIMENT BASIN SB-3
SEDIMENT BASIN SB-4
SEDIMENT BASIN SB-5
DISCHARGE PIPE DP-1

PERMIT NO. 1 FACILITY BOUNDARY
LOUDOUN COUNTY LANDFILL DISPOSAL UNIT (LCLFDU)
TOWER
PHASE III
CELL III C
CELL III A
PHASE IIA (UNDER CELL III B)
CELL III B
PHASE IIB (UNDER CELL III B)
SEDIMENT BASIN SB-3
OUTFALL SB-3
PHASE II
THE WOODS ROAD STATE ROUTE NO. 771
WOODS ROAD DISPOSAL UNIT (WRDU)
LIMITS OF WASTE DISPOSAL
WOOD WASTE STORAGE AREA
OLD FILL
FUTURE MAINTENANCE AND STORAGE FACILITY
WOOD WASTE PROCESSING AREA
PHASE I
LIMITS OF WASTE DISPOSAL
MAINTENANCE AND STORAGE BUILDINGS
SCRAP METAL AREA
CITIZENS CONVENIENCE CENTER #2
HAZARDOUS WASTE STORAGE BUILDING
LOCATION OF CLOSED ASBESTOS DISPOSAL AREA
CITIZENS CONVENIENCE CENTER #1
LEACHATE HANDLING CONTROL CENTER
LANDFILL GAS BLOWER/FLARE SYSTEM
SCALE HOUSE ADMINISTRATION BUILDING
RECYCLING AREA
SEDIMENT BASIN SB-1
OUTFALL SB-1
SCREENING BERM
DISCHARGE PIPE DP-1
SCREENING BERM
FACILITY ALTERNATE ENTRANCE
NOVEC SYCOLIN SUBSTATION
PHASE III
PHASE I
PHASE IV
OUTFALL SB-5
SEDIMENT BASIN SB-5
PERMIT NO. 1 FACILITY BOUNDARY
SCREENING BERM
SPRINGS
EVERGREEN MILLS ROAD
ROUTE 621
OUTFALL SB-4
SEDIMENT BASIN SB-4
FACILITY PRIMARY ENTRANCE

SWS
SOLID WASTE SERVICES, LLC
11706 BOWMAN GREEN DRIVE RESTON, VIRGINIA 20190
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FIGURE 1
SURFACE WATER SAMPLING LOCATIONS
LOUDOUN COUNTY SOLID WASTE MANAGEMENT FACILITY

Attachment 3

Example of Groundwater Analytical Result EDD

County Sample ID	Lab Sample ID	Date Collected	Date Analyzed	Analyte	CAS No	Symbol	Result	Qualifier	Units	Reporting Limit	Quantitation Limit	Analysis	Analytical Method
MW-26	C409424-01	07/29/14	08/05/14	Acrolein	107-02-8	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	2,2-Dichloropropane	594-20-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,2,4-Trichlorobenzene	120-82-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4		0.58	J	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6		1.3	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Methyl Methacrylate	80-62-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Methacrylonitrile	126-98-7	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/01/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 7470A
MW-26	C409424-01	07/29/14	08/05/14	Isobutyl alcohol	78-83-1	<	50	U	ug/L	50	50	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,3-Dichlorobenzene	541-73-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,1-Dichloropropene	563-58-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	m,p-Xylenes	108-38-3/106-42-3	<	2.0	U	ug/L	2.0	2.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Propionitrile	107-12-0	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Ethyl Methacrylate	97-63-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Hexachlorobutadiene	87-68-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Chloroprene	126-99-8	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	o-Xylene	95-47-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4		21	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Naphthalene	91-20-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,3-Dichloropropane	142-28-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	3-Chloropropene	107-05-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B

MW-26	C409424-01	07/29/14	08/05/14	Dichlorodifluoromethane	75-71-8		35	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Acetonitrile	75-05-8	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Chloroform	67-66-3		1.9	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-26	C409424-01	07/29/14	08/05/14	Tetrachloroethene	127-18-4		6.3	D	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-02	C409425-01	07/28/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Nickel	7440-02-0		2.23	J	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Antimony	7440-36-0		0.366	J	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-02	C409425-01	07/28/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-02	C409425-01	07/28/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-02	C409425-01	07/28/14	08/04/14	Barium	7440-39-3		126	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Zinc	7440-66-6		7.18	J	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-02	C409425-01	07/28/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C

WR-02	C409425-01	07/28/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Cobalt	7440-48-4		0.579	J	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-02	C409425-01	07/28/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02	C409425-01	07/28/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02	C409425-01	07/28/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-02D	C409425-02	07/28/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-02D	C409425-02	07/28/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Zinc	7440-66-6	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-02D	C409425-02	07/28/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Barium	7440-39-3		49.4	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Cobalt	7440-48-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-02D	C409425-02	07/28/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

WR-02D	C409425-02	07/28/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-02D	C409425-02	07/28/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-02D	C409425-02	07/28/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/04/14	Antimony	7440-36-0		0.791	J	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-02D	C409425-02	07/28/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-02D	C409425-02	07/28/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-03	C409425-03	07/28/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-03	C409425-03	07/28/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Cobalt	7440-48-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-03	C409425-03	07/28/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Barium	7440-39-3		73.3	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-03	C409425-03	07/28/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

WR-03	C409425-03	07/28/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Beryllium	7440-41-7		0.155	J	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/04/14	Zinc	7440-66-6		8.22	J	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-03	C409425-03	07/28/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-03	C409425-03	07/28/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-03	C409425-03	07/28/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-03	C409425-03	07/28/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

WR-04	C409425-04	07/28/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-04	C409425-04	07/28/14	08/04/14	Copper	7440-50-8		4.23	J	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-04	C409425-04	07/28/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-04	C409425-04	07/28/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-04	C409425-04	07/28/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/04/14	Cobalt	7440-48-4		0.418	J	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-04	C409425-04	07/28/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/04/14	Zinc	7440-66-6		16.7	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/04/14	Barium	7440-39-3		35.1	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/04/14	Beryllium	7440-41-7		0.287	J	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-04	C409425-04	07/28/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-04	C409425-04	07/28/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-04	C409425-04	07/28/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-05	C409425-05	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

WR-05	C409425-05	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/04/14	Barium	7440-39-3		14.5	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Cobalt	7440-48-4		1.30	D	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-05	C409425-05	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Zinc	7440-66-6	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-05	C409425-05	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-05	C409425-05	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-05	C409425-05	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-05	C409425-05	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-05	C409425-05	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-05	C409425-05	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/04/14	Cobalt	7440-48-4		0.258	J	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-17	C409425-06	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

WR-17	C409425-06	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Zinc	7440-66-6		12.6	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-17	C409425-06	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-17	C409425-06	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-17	C409425-06	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-17	C409425-06	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/04/14	Barium	7440-39-3		38.1	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-17	C409425-06	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-17	C409425-06	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-17	C409425-06	07/29/14	08/04/14	Beryllium	7440-41-7		0.192	J	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-18	C409425-07	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

WR-18	C409425-07	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Barium	7440-39-3		43.4	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/04/14	Zinc	7440-66-6	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-18	C409425-07	07/29/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Copper	7440-50-8		2.91	J	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-18	C409425-07	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Cobalt	7440-48-4		1.49	D	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-18	C409425-07	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-18	C409425-07	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-18	C409425-07	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C

WR-18	C409425-07	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-18	C409425-07	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-19	C409425-08	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/04/14	Cobalt	7440-48-4		0.446	J	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-19	C409425-08	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/04/14	Barium	7440-39-3		53.3	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-19	C409425-08	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-19	C409425-08	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-19	C409425-08	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-19	C409425-08	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-19	C409425-08	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

WR-19	C409425-08	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/04/14	Zinc	7440-66-6		4.93	J	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-19	C409425-08	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-19	C409425-08	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
MW-12	C409425-09	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-12	C409425-09	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/04/14	Zinc	7440-66-6		10.2	D	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4		0.79	J	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-12	C409425-09	07/29/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Cobalt	7440-48-4		0.110	J	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-12	C409425-09	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	Dichlorodifluoromethane	75-71-8		1.9	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
MW-12	C409425-09	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
MW-12	C409425-09	07/29/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3		1.6	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

MW-12	C409425-09	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Tetrachloroethene	127-18-4		2.2	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Beryllium	7440-41-7		0.168	J	ug/L	1.00	1.00	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/04/14	Barium	7440-39-3		75.6	D	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-12	C409425-09	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-12	C409425-09	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
MW-199801	C409425-10	07/28/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
MW-199801	C409425-10	07/28/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Dichlorodifluoromethane	75-71-8	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

MW-199801	C409425-10	07/28/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-199801	C409425-10	07/28/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/04/14	Cobalt	7440-48-4		0.251	J	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-199801	C409425-10	07/28/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
MW-199801	C409425-10	07/28/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Barium	7440-39-3		40.7	D	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Zinc	7440-66-6		5.46	J	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-199801	C409425-10	07/28/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-199801	C409425-10	07/28/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-199801	C409425-10	07/28/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
MW-21	C409425-11	07/28/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Cobalt	7440-48-4		11.2	D	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-21	C409425-11	07/28/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-21	C409425-11	07/28/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-21	C409425-11	07/28/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Barium	7440-39-3		61.1	D	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
MW-21	C409425-11	07/28/14	08/04/14	Zinc	7440-66-6	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
MW-21	C409425-11	07/28/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Copper	7440-50-8		4.55	J	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11	07/28/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-21	C409425-11RE1	07/28/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

MW-21	C409425-11RE1	07/28/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Chloroform	67-66-3		1.9	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Dichlorodifluoromethane	75-71-8	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-21	C409425-11RE1	07/28/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-34	C409425-12	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

MW-34	C409425-12	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-34	C409425-12	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Copper	7440-50-8		8.33	J	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Tetrachloroethene	127-18-4		3.2	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Dichlorodifluoromethane	75-71-8		2.5	D	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Zinc	7440-66-6		7.39	J	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Barium	7440-39-3		34.5	D	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
MW-34	C409425-12	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/04/14	Cobalt	7440-48-4		478	D	ug/L	1.00	1.00	Inorg	EPA 6020A
MW-34	C409425-12	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
MW-34	C409425-12	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
MW-34	C409425-12	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
MW-34	C409425-12RE1	07/29/14	08/02/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
MW-34	C409425-12RE1	07/29/14	08/02/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-01	C409425-13	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-01	C409425-13	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Barium	7440-39-3		28.7	D	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/04/14	Copper	7440-50-8		5.45	J	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

WR-01	C409425-13	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
WR-01	C409425-13	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Beryllium	7440-41-7		0.124	J	ug/L	1.00	1.00	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Zinc	7440-66-6		6.04	J	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Cobalt	7440-48-4		2.63	D	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-01	C409425-13	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-01	C409425-13	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Dichlorodifluoromethane	75-71-8	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
WR-01	C409425-13	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
WR-01	C409425-13	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
WR-01	C409425-13	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C

WR-01	C409425-13	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
WR-01	C409425-13	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
Duplicate	C409425-14	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3		1.9	D	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/04/14	Zinc	7440-66-6		8.43	J	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/04/14	Barium	7440-39-3		73.9	D	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Duplicate	C409425-14	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
Duplicate	C409425-14	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/04/14	Beryllium	7440-41-7		0.120	J	ug/L	1.00	1.00	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/05/14	Dichlorodifluoromethane	75-71-8		1.9	D	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Duplicate	C409425-14	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Duplicate	C409425-14	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/04/14	Cobalt	7440-48-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Duplicate	C409425-14	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
Duplicate	C409425-14	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Tetrachloroethene	127-18-4		2.2	D	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

Duplicate	C409425-14	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4		0.87	J	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Duplicate	C409425-14RE1	07/29/14	08/05/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Equipment Blank	C409425-15	07/28/14	08/05/14	Dichlorodifluoromethane	75-71-8	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/04/14	Cobalt	7440-48-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Equipment Blank	C409425-15	07/28/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
Equipment Blank	C409425-15	07/28/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
Equipment Blank	C409425-15	07/28/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Zinc	7440-66-6	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C

Equipment Blank	C409425-15	07/28/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
Equipment Blank	C409425-15	07/28/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Equipment Blank	C409425-15	07/28/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/04/14	Barium	7440-39-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Equipment Blank	C409425-15	07/28/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Equipment Blank	C409425-15	07/28/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
Field Blank	C409425-16	07/29/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Barium	7440-39-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Cobalt	7440-48-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Field Blank	C409425-16	07/29/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

Field Blank	C409425-16	07/29/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Field Blank	C409425-16	07/29/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Field Blank	C409425-16	07/29/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Dichlorodifluoromethane	75-71-8	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Field Blank	C409425-16	07/29/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
Field Blank	C409425-16	07/29/14	08/04/14	Zinc	7440-66-6	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
Field Blank	C409425-16	07/29/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Field Blank	C409425-16	07/29/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Trichlorofluoromethane	75-69-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Zinc	7440-66-6	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/05/14	Toluene	108-88-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Nickel	7440-02-0	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/05/14	4-Methyl-2-pentanone	108-10-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/01/14	1,2-Dibromo-3-chloropropane	96-12-8	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
Trip Blank	C409425-17	07/28/14	08/01/14	1,2-Dibromoethane	106-93-4	<	0.020	U	ug/L	0.020	0.020	SVOC	EPA 8011
Trip Blank	C409425-17	07/28/14	08/05/14	1,1,1-Trichloroethane	71-55-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Vinyl acetate	108-05-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Tetrachloroethene	127-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Vanadium	7440-62-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/04/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/05/14	Xylenes (Total)	1330-20-7	<	3.0	U	ug/L	3.0	3.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Vinyl chloride	75-01-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	trans-1,3-Dichloropropene	10061-02-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	1,1-Dichloroethene	75-35-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Silver	7440-22-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Trip Blank	C409425-17	07/28/14	08/05/14	Bromoform	75-25-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Iodomethane	74-88-4	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Methylene chloride	75-09-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/05/14	1,2-Dichlorobenzene	95-50-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/05/14	Bromodichloromethane	75-27-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Bromochloromethane	74-97-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Ethylbenzene	100-41-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B

Trip Blank	C409425-17	07/28/14	08/05/14	1,2-Dichloroethane	107-06-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Bromomethane	74-83-9	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/05/14	1,2-Dichloropropane	78-87-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	2-Hexanone	591-78-6	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Beryllium	7440-41-7	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/04/14	Barium	7440-39-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/05/14	2-Butanone	78-93-3	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Acetone	67-64-1	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	trans-1,4-Dichloro-2-butene	110-57-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	1,4-Dichlorobenzene	106-46-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Trichloroethene	79-01-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	trans-1,2-Dichloroethene	156-60-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Antimony	7440-36-0	<	2.00	U	ug/L	2.00	2.00	Inorg	EPA 6020A
Trip Blank	C409425-17	07/28/14	08/05/14	Styrene	100-42-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Cobalt	7440-48-4	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Trip Blank	C409425-17	07/28/14	08/05/14	Acrylonitrile	107-13-1	<	10	U	ug/L	10	10	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/05/14	Dibromochloromethane	124-48-1	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	cis-1,3-Dichloropropene	10061-01-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Benzene	71-43-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	1,1,2-Trichloroethane	79-00-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Carbon tetrachloride	56-23-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	cis-1,2-Dichloroethene	156-59-2	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	1,2,3-Trichloropropane	96-18-4	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	1,1-Dichloroethane	75-34-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	1,1,2,2-Tetrachloroethane	79-34-5	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Chlorobenzene	108-90-7	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Chloroethane	75-00-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Chloromethane	74-87-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Carbon disulfide	75-15-0	<	5.0	U	ug/L	5.0	5.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Dichlorodifluoromethane	75-71-8	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Tin	7440-31-5	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C
Trip Blank	C409425-17	07/28/14	08/04/14	Thallium	7440-28-0	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 6020A
Trip Blank	C409425-17	07/28/14	08/05/14	Chloroform	67-66-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	Dibromomethane	74-95-3	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/05/14	1,1,1,2-Tetrachloroethane	630-20-6	<	1.0	U	ug/L	1.0	1.0	VOC	EPA 8260B
Trip Blank	C409425-17	07/28/14	08/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 6010C

Attachment 4

Example of LW Leachate Analytical Result EDD

County Sample ID	Lab Sample ID	Date Collected	Date Analyzed	Analyte	CAS No	Symbol	Result	Qualifier	Units	Reporting Limit	Quantitation Limit	Analysis	Analytical Method
#LCHEFF	C408162-01	09/02/14	09/09/14	Dibromochloromethane	124-48-1	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/08/14	2,4-Dichlorophenol	120-83-2	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/09/14	2-Chloroethyl Vinyl Ether	110-75-8	<	50	U	ug/L	50	50	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Acrolein	107-02-8	<	100	U	ug/L	100	100	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Acrylonitrile	107-13-1	<	100	U	ug/L	100	100	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Benzene	71-43-2	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Bromodichloromethane	75-27-4	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Bromoform	75-25-2	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Bromomethane	74-83-9	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Carbon Tetrachloride	56-23-5	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Chlorobenzene	108-90-7	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Chloroethane	75-00-3	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Chloroform	67-66-3	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	1,2-Dichloroethane	107-06-2	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	cis-1,3-Dichloropropene	10061-01-5	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	1,1-Dichloroethene	75-35-4	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Ethylbenzene	100-41-4	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Methylene Chloride	75-09-2	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Tetrachloroethene	127-18-4	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Toluene	108-88-3	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	trans-1,2-Dichloroethene	156-60-5	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	trans-1,3-Dichloropropene	10061-02-6	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Trichloroethene	79-01-6	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	Vinyl chloride	75-01-4	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/08/14	1,2,4-Trichlorobenzene	120-82-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	1,2-Dichlorobenzene	95-50-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	1,3-Dichlorobenzene	541-73-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	1,4-Dichlorobenzene	106-46-7	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/10/14	PCB-1016/1242	12674-11-2/53469-21-9	<	0.50	U	ug/L	0.50	0.50	PCB	EPA 608
#LCHEFF	C408162-01	09/02/14	09/09/14	Chloromethane	74-87-3	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/10/14	Dieldrin	60-57-1	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	PCB-1221	11104-28-2	<	0.50	U	ug/L	0.50	0.50	PCB	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	PCB-1232	11141-16-5	<	0.50	U	ug/L	0.50	0.50	PCB	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	PCB-1248	12672-29-6	<	0.50	U	ug/L	0.50	0.50	PCB	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	PCB-1254	11097-69-1	<	0.50	U	ug/L	0.50	0.50	PCB	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	PCB-1260	11096-82-5	<	0.50	U	ug/L	0.50	0.50	PCB	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	4,4'-DDD	72-54-8	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	4,4'-DDE	72-55-9	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	4,4'-DDT	50-29-3	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Aldrin	309-00-2	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	alpha-BHC	319-84-6	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	beta-BHC	319-85-7	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Chlordane (n.o.s.)	57-74-9	<	1.0	U	ug/L	1.0	1.0	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/09/14	1,2-Dichloropropane	78-87-5	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/10/14	delta-BHC	319-86-8	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/08/14	2,4-Dimethylphenol	105-67-9	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/10/14	Endosulfan I	959-98-8	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Endosulfan II	33213-65-9	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Endosulfan sulfate	1031-07-8	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Endrin	72-20-8	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Endrin aldehyde	7421-93-4	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	gamma-BHC	58-89-9	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Heptachlor	76-44-8	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Heptachlor epoxide	1024-57-3	<	0.050	U	ug/L	0.050	0.050	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/10/14	Toxaphene	8001-35-2	<	1.0	U	ug/L	1.0	1.0	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/09/14	1,1,1-Trichloroethane	71-55-6	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	1,1,2,2-Tetrachloroethane	79-34-5	<	10	U	ug/L	10	10	VOC	EPA 624

#LCHEFF	C408162-01	09/02/14	09/09/14	1,1,2-Trichloroethane	79-00-5	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/09/14	1,1-Dichloroethane	75-34-3	<	10	U	ug/L	10	10	VOC	EPA 624
#LCHEFF	C408162-01	09/02/14	09/10/14	Chlordane (tech)	12789-03-6	<	0.50	U	ug/L	0.50	0.50	Pest	EPA 608
#LCHEFF	C408162-01	09/02/14	09/08/14	Naphthalene	91-20-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	2,4,6-Trichlorophenol	88-06-2	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Dimethylphthalate	131-11-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	DPH (as Azobenzene)	103-33-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Fluoranthene	206-44-0	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Fluorene	86-73-7	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Hexachlorobenzene	118-74-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Hexachlorobutadiene	87-68-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Hexachlorocyclopentadiene	77-47-4	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Hexachloroethane	67-72-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Indeno(1,2,3-cd)pyrene	193-39-5	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Isophorone	78-59-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	N-Nitroso-di-n-propylamine	621-64-7	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Dibenzo(a,h)anthracene	53-70-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	N-Nitrosodiphenylamine/Diphenylamine	86-30-6/122-39-4	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Di-n-octylphthalate	117-84-0	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Nitrobenzene	98-95-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Pentachlorophenol	87-86-5	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Phenanthrene	85-01-8	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Phenol	108-95-2		76	J	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Pyrene	129-00-0	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/04/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
#LCHEFF	C408162-01	09/02/14	09/04/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 200.7
#LCHEFF	C408162-01	09/02/14	09/04/14	Copper	7440-50-8	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
#LCHEFF	C408162-01	09/02/14	09/04/14	Cyanide (total)	57-12-5	<	5.0	U	ug/L	5.0	5.0	Inorg	EPA 335.4
#LCHEFF	C408162-01	09/02/14	09/04/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
#LCHEFF	C408162-01	09/02/14	09/05/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 245.1
#LCHEFF	C408162-01	09/02/14	09/04/14	Molybdenum	7439-98-7	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
#LCHEFF	C408162-01	09/02/14	09/04/14	Nickel	7440-02-0		27.3	D	ug/L	10.0	10.0	Inorg	EPA 200.7
#LCHEFF	C408162-01	09/02/14	09/08/14	N-Nitrosodimethylamine	62-75-9	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Anthracene	120-12-7	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	2,4-Dinitrophenol	51-28-5	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	2,4-Dinitrotoluene	121-14-2	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	2,6-Dinitrotoluene	606-20-2	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	2-Chloronaphthalene	91-58-7	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	2-Chlorophenol	95-57-8	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	2-Methyl-4,6-dinitrophenol	534-52-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	2-Nitrophenol	88-75-5	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	3,3'-Dichlorobenzidine	91-94-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	4-Bromophenyl-phenylether	101-55-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	4-Chloro-3-methylphenol	59-50-7	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	4-Chlorophenyl-phenylether	7005-72-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	4-Nitrophenol	100-02-7	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Diethylphthalate	84-66-2	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Acenaphthylene	208-96-8	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/04/14	Zinc	7440-66-6		12.8	D	ug/L	10.0	10.0	Inorg	EPA 200.7
#LCHEFF	C408162-01	09/02/14	09/08/14	Benzidine	92-87-5	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Benzo(a)anthracene	56-55-3	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Benzo(a)pyrene	50-32-8	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Benzo(b)fluoranthene	205-99-2	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Benzo(g,h,i)perylene	191-24-2	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Benzo(k)fluoranthene	207-08-9	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Bis(2-chloroethoxy)methane	111-91-1	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Bis(2-chloroethyl)ether	111-44-4	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Bis(2-chloroisopropyl)ether	108-60-1	<	100	U	ug/L	100	100	SVOC	EPA 625

#LCHEFF	C408162-01	09/02/14	09/08/14	Bis(2-ethylhexyl)phthalate	117-81-7	<	50	U	ug/L	50	50	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Butylbenzylphthalate	85-68-7	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Chrysene	218-01-9	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Di-n-butylphthalate	84-74-2	<	100	U	ug/L	100	100	SVOC	EPA 625
#LCHEFF	C408162-01	09/02/14	09/08/14	Acenaphthene	83-32-9	<	100	U	ug/L	100	100	SVOC	EPA 625

Attachment 5
Example of Quarterly Chapter 1080 Surface Water Analytical Result EDD

County Sample ID	Lab Sample ID	Date Collected	Date Analyzed	Analyte	CAS No	Symbol	Result	Qualifier	Units	Reporting Limit	Quantitation Limit	Analysis	Analytical Method
SB-1 IN	C400553-01	01/28/14	02/03/14	Phosphorus	7723-14-0		130	D	ug/L	100	100	Inorg	EPA 365.4
SB-1 IN	C400553-01	01/28/14	02/03/14	Lead	7439-92-1		4.2	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 IN	C400553-01	01/28/14	01/31/14	Chemical Oxygen Demand	ECL-0035		28000	D	ug/L	10000	10000	Inorg	SM 5220D-1997
SB-1 IN	C400553-01	01/28/14	02/04/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 245.1
SB-1 IN	C400553-01	01/28/14	01/29/14	Biochemical Oxygen Demand	ECL-0017		3700	D	ug/L	2000	2000	Inorg	SM 5210B-2001
SB-1 IN	C400553-01	01/28/14	01/31/14	Nitrate as N	14797-55-8		160	D	ug/L	100	100	Inorg	EPA 353.2
SB-1 IN	C400553-01	01/28/14	01/29/14	Nitrite as N	14797-65-0		46	J	ug/L	100	100	Inorg	EPA 353.2
SB-1 IN	C400553-01	01/28/14	02/03/14	Barium	7440-39-3		46.9	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 IN	C400553-01	01/28/14	02/03/14	Chromium	7440-47-3		3.2	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 IN	C400553-01	01/28/14	02/03/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 IN	C400553-01	01/28/14	01/30/14	Nitrate/Nitrite as N	ECL-0010		210	D	ug/L	100	100	Inorg	EPA 353.2
SB-1 IN	C400553-01	01/28/14	02/03/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 IN	C400553-01	01/28/14	02/03/14	Silver	7440-22-4	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 IN	C400553-01	01/28/14	02/04/14	Ammonia as N	7664-41-7		280	D	ug/L	100	100	Inorg	EPA 350.1
SB-1 IN	C400553-01	01/28/14	01/31/14	Total Organic Carbon	ECL-0165		8800	D	ug/L	1000	1000	Inorg	SM 5310B-2000
SB-1 IN	C400553-01	01/28/14	01/30/14	Total Suspended Solids	ECL-0169		14000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
SB-1 IN	C400553-01	01/28/14	02/03/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 200.7
SB-1 OUT	C400553-02	01/28/14	01/29/14	Nitrite as N	14797-65-0		31	J	ug/L	100	100	Inorg	EPA 353.2
SB-1 OUT	C400553-02	01/28/14	02/03/14	Phosphorus	7723-14-0		140	D	ug/L	100	100	Inorg	EPA 365.4
SB-1 OUT	C400553-02	01/28/14	01/31/14	Chemical Oxygen Demand	ECL-0035		30000	D	ug/L	10000	10000	Inorg	SM 5220D-1997
SB-1 OUT	C400553-02	01/28/14	01/30/14	Nitrate/Nitrite as N	ECL-0010		300	D	ug/L	100	100	Inorg	EPA 353.2
SB-1 OUT	C400553-02	01/28/14	02/04/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 245.1
SB-1 OUT	C400553-02	01/28/14	02/03/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 OUT	C400553-02	01/28/14	02/04/14	Ammonia as N	7664-41-7		260	D	ug/L	100	100	Inorg	EPA 350.1
SB-1 OUT	C400553-02	01/28/14	02/03/14	Barium	7440-39-3		46.3	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 OUT	C400553-02	01/28/14	02/03/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 200.7
SB-1 OUT	C400553-02	01/28/14	01/31/14	Nitrate as N	14797-55-8		270	D	ug/L	100	100	Inorg	EPA 353.2
SB-1 OUT	C400553-02	01/28/14	01/31/14	Total Organic Carbon	ECL-0165		9600	D	ug/L	1000	1000	Inorg	SM 5310B-2000
SB-1 OUT	C400553-02	01/28/14	01/29/14	Biochemical Oxygen Demand	ECL-0017		4400	D	ug/L	2000	2000	Inorg	SM 5210B-2001
SB-1 OUT	C400553-02	01/28/14	02/03/14	Lead	7439-92-1		2.6	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 OUT	C400553-02	01/28/14	01/30/14	Total Suspended Solids	ECL-0169		20000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
SB-1 OUT	C400553-02	01/28/14	02/03/14	Silver	7440-22-4	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 OUT	C400553-02	01/28/14	02/03/14	Chromium	7440-47-3		2.3	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1 OUT	C400553-02	01/28/14	02/03/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 IN	C400553-03	01/28/14	02/03/14	Barium	7440-39-3		25.0	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 IN	C400553-03	01/28/14	01/29/14	Biochemical Oxygen Demand	ECL-0017		2400	D	ug/L	2000	2000	Inorg	SM 5210B-2001
SB-3 IN	C400553-03	01/28/14	02/03/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 IN	C400553-03	01/28/14	02/03/14	Silver	7440-22-4	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 IN	C400553-03	01/28/14	02/04/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 245.1
SB-3 IN	C400553-03	01/28/14	02/04/14	Ammonia as N	7664-41-7	<	100	U	ug/L	100	100	Inorg	EPA 350.1
SB-3 IN	C400553-03	01/28/14	01/31/14	Chemical Oxygen Demand	ECL-0035		13000	D	ug/L	10000	10000	Inorg	SM 5220D-1997
SB-3 IN	C400553-03	01/28/14	01/31/14	Total Organic Carbon	ECL-0165		4500	D	ug/L	1000	1000	Inorg	SM 5310B-2000
SB-3 IN	C400553-03	01/28/14	01/29/14	Nitrite as N	14797-65-0		24	J	ug/L	100	100	Inorg	EPA 353.2
SB-3 IN	C400553-03	01/28/14	01/31/14	Nitrate as N	14797-55-8		350	D	ug/L	100	100	Inorg	EPA 353.2
SB-3 IN	C400553-03	01/28/14	02/03/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 200.7
SB-3 IN	C400553-03	01/28/14	02/03/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 IN	C400553-03	01/28/14	02/03/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 IN	C400553-03	01/28/14	02/03/14	Phosphorus	7723-14-0	<	100	U	ug/L	100	100	Inorg	EPA 365.4
SB-3 IN	C400553-03	01/28/14	01/30/14	Nitrate/Nitrite as N	ECL-0010		370	D	ug/L	100	100	Inorg	EPA 353.2
SB-3 IN	C400553-03	01/28/14	01/30/14	Total Suspended Solids	ECL-0169		23000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
SB-3 IN	C400553-03	01/28/14	02/03/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 OUT	C400553-04	01/28/14	01/30/14	Total Suspended Solids	ECL-0169		24000	D	ug/L	1000	1000	Inorg	SM 2540D-1997

SB-3 OUT	C400553-04	01/28/14	02/03/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 OUT	C400553-04	01/28/14	01/29/14	Nitrite as N	14797-65-0		25	J	ug/L	100	100	Inorg	EPA 353.2
SB-3 OUT	C400553-04	01/28/14	01/31/14	Chemical Oxygen Demand	ECL-0035		13000	D	ug/L	10000	10000	Inorg	SM 5220D-1997
SB-3 OUT	C400553-04	01/28/14	02/04/14	Ammonia as N	7664-41-7	<	100	U	ug/L	100	100	Inorg	EPA 350.1
SB-3 OUT	C400553-04	01/28/14	02/04/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 245.1
SB-3 OUT	C400553-04	01/28/14	02/03/14	Phosphorus	7723-14-0		50	J	ug/L	100	100	Inorg	EPA 365.4
SB-3 OUT	C400553-04	01/28/14	01/31/14	Nitrate as N	14797-55-8		460	D	ug/L	100	100	Inorg	EPA 353.2
SB-3 OUT	C400553-04	01/28/14	01/29/14	Biochemical Oxygen Demand	ECL-0017		2700	D	ug/L	2000	2000	Inorg	SM 5210B-2001
SB-3 OUT	C400553-04	01/28/14	02/03/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 200.7
SB-3 OUT	C400553-04	01/28/14	02/03/14	Barium	7440-39-3		29.8	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 OUT	C400553-04	01/28/14	02/03/14	Silver	7440-22-4	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 OUT	C400553-04	01/28/14	02/03/14	Chromium	7440-47-3	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 OUT	C400553-04	01/28/14	02/03/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 OUT	C400553-04	01/28/14	02/03/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3 OUT	C400553-04	01/28/14	01/30/14	Nitrate/Nitrite as N	ECL-0010		490	D	ug/L	100	100	Inorg	EPA 353.2
SB-3 OUT	C400553-04	01/28/14	01/31/14	Total Organic Carbon	ECL-0165		4500	D	ug/L	1000	1000	Inorg	SM 5310B-2000
SB-4 IN	C400553-05	01/28/14	01/31/14	Chemical Oxygen Demand	ECL-0035		59000	D	ug/L	10000	10000	Inorg	SM 5220D-1997
SB-4 IN	C400553-05	01/28/14	02/03/14	Chromium	7440-47-3		2.5	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-4 IN	C400553-05	01/28/14	02/03/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 200.7
SB-4 IN	C400553-05	01/28/14	01/30/14	Nitrate/Nitrite as N	ECL-0010		180	D	ug/L	100	100	Inorg	EPA 353.2
SB-4 IN	C400553-05	01/28/14	01/31/14	Total Organic Carbon	ECL-0165		19000	D	ug/L	1000	1000	Inorg	SM 5310B-2000
SB-4 IN	C400553-05	01/28/14	01/30/14	Total Suspended Solids	ECL-0169		36000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
SB-4 IN	C400553-05	01/28/14	02/03/14	Silver	7440-22-4	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-4 IN	C400553-05	01/28/14	02/03/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-4 IN	C400553-05	01/28/14	02/03/14	Barium	7440-39-3		29.0	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-4 IN	C400553-05	01/28/14	02/03/14	Phosphorus	7723-14-0		68	J	ug/L	100	100	Inorg	EPA 365.4
SB-4 IN	C400553-05	01/28/14	01/29/14	Biochemical Oxygen Demand	ECL-0017		28000	D	ug/L	2000	2000	Inorg	SM 5210B-2001
SB-4 IN	C400553-05	01/28/14	01/29/14	Nitrite as N	14797-65-0		31	J	ug/L	100	100	Inorg	EPA 353.2
SB-4 IN	C400553-05	01/28/14	01/31/14	Nitrate as N	14797-55-8		150	D	ug/L	100	100	Inorg	EPA 353.2
SB-4 IN	C400553-05	01/28/14	02/04/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 245.1
SB-4 IN	C400553-05	01/28/14	02/04/14	Ammonia as N	7664-41-7		1200	D	ug/L	100	100	Inorg	EPA 350.1
SB-4 IN	C400553-05	01/28/14	02/03/14	Lead	7439-92-1	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-4 IN	C400553-05	01/28/14	02/03/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 IN	C400553-06	01/28/14	02/03/14	Barium	7440-39-3		42.3	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 IN	C400553-06	01/28/14	01/29/14	Biochemical Oxygen Demand	ECL-0017	<	2000	U	ug/L	2000	2000	Inorg	SM 5210B-2001
SB-5 IN	C400553-06	01/28/14	02/03/14	Arsenic	7440-38-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 IN	C400553-06	01/28/14	02/04/14	Ammonia as N	7664-41-7		400	D	ug/L	100	100	Inorg	EPA 350.1
SB-5 IN	C400553-06	01/28/14	02/03/14	Lead	7439-92-1		7.9	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 IN	C400553-06	01/28/14	02/03/14	Phosphorus	7723-14-0		210	D	ug/L	100	100	Inorg	EPA 365.4
SB-5 IN	C400553-06	01/28/14	02/03/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 IN	C400553-06	01/28/14	02/03/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 200.7
SB-5 IN	C400553-06	01/28/14	01/29/14	Nitrite as N	14797-65-0		36	J	ug/L	100	100	Inorg	EPA 353.2
SB-5 IN	C400553-06	01/28/14	02/03/14	Silver	7440-22-4	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 IN	C400553-06	01/28/14	01/31/14	Nitrate as N	14797-55-8		2300	D	ug/L	100	100	Inorg	EPA 353.2
SB-5 IN	C400553-06	01/28/14	02/04/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 245.1
SB-5 IN	C400553-06	01/28/14	01/30/14	Nitrate/Nitrite as N	ECL-0010		2300	D	ug/L	100	100	Inorg	EPA 353.2
SB-5 IN	C400553-06	01/28/14	01/31/14	Chemical Oxygen Demand	ECL-0035		36000	D	ug/L	10000	10000	Inorg	SM 5220D-1997
SB-5 IN	C400553-06	01/28/14	01/30/14	Total Suspended Solids	ECL-0169		28000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
SB-5 IN	C400553-06	01/28/14	02/03/14	Chromium	7440-47-3		7.8	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 IN	C400553-06	01/28/14	01/31/14	Total Organic Carbon	ECL-0165		6800	D	ug/L	1000	1000	Inorg	SM 5310B-2000
SB-5 OUT	C400553-07	01/28/14	02/04/14	Ammonia as N	7664-41-7		290	D	ug/L	100	100	Inorg	EPA 350.1
SB-5 OUT	C400553-07	01/28/14	02/03/14	Selenium	7782-49-2	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 OUT	C400553-07	01/28/14	01/30/14	Total Suspended Solids	ECL-0169		97000	D	ug/L	1000	1000	Inorg	SM 2540D-1997

SB-5 OUT	C400553-07	01/28/14	02/03/14	Arsenic	7440-38-2		5.6	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 OUT	C400553-07	01/28/14	01/31/14	Total Organic Carbon	ECL-0165		6000	D	ug/L	1000	1000	Inorg	SM 5310B-2000
SB-5 OUT	C400553-07	01/28/14	02/03/14	Silver	7440-22-4	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 OUT	C400553-07	01/28/14	02/03/14	Phosphorus	7723-14-0		250	D	ug/L	100	100	Inorg	EPA 365.4
SB-5 OUT	C400553-07	01/28/14	02/04/14	Mercury	7439-97-6	<	0.200	U	ug/L	0.200	0.200	Inorg	EPA 245.1
SB-5 OUT	C400553-07	01/28/14	02/03/14	Barium	7440-39-3		52.7	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 OUT	C400553-07	01/28/14	01/29/14	Nitrite as N	14797-65-0		54	J	ug/L	100	100	Inorg	EPA 353.2
SB-5 OUT	C400553-07	01/28/14	01/31/14	Nitrate as N	14797-55-8		2000	D	ug/L	100	100	Inorg	EPA 353.2
SB-5 OUT	C400553-07	01/28/14	02/03/14	Lead	7439-92-1		9.7	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 OUT	C400553-07	01/28/14	01/31/14	Chemical Oxygen Demand	ECL-0035		34000	D	ug/L	10000	10000	Inorg	SM 5220D-1997
SB-5 OUT	C400553-07	01/28/14	02/03/14	Chromium	7440-47-3		10.3	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5 OUT	C400553-07	01/28/14	01/29/14	Biochemical Oxygen Demand	ECL-0017		2700	D	ug/L	2000	2000	Inorg	SM 5210B-2001
SB-5 OUT	C400553-07	01/28/14	02/03/14	Cadmium	7440-43-9	<	1.00	U	ug/L	1.00	1.00	Inorg	EPA 200.7
SB-5 OUT	C400553-07	01/28/14	01/30/14	Nitrate/Nitrite as N	ECL-0010		2100	D	ug/L	100	100	Inorg	EPA 353.2

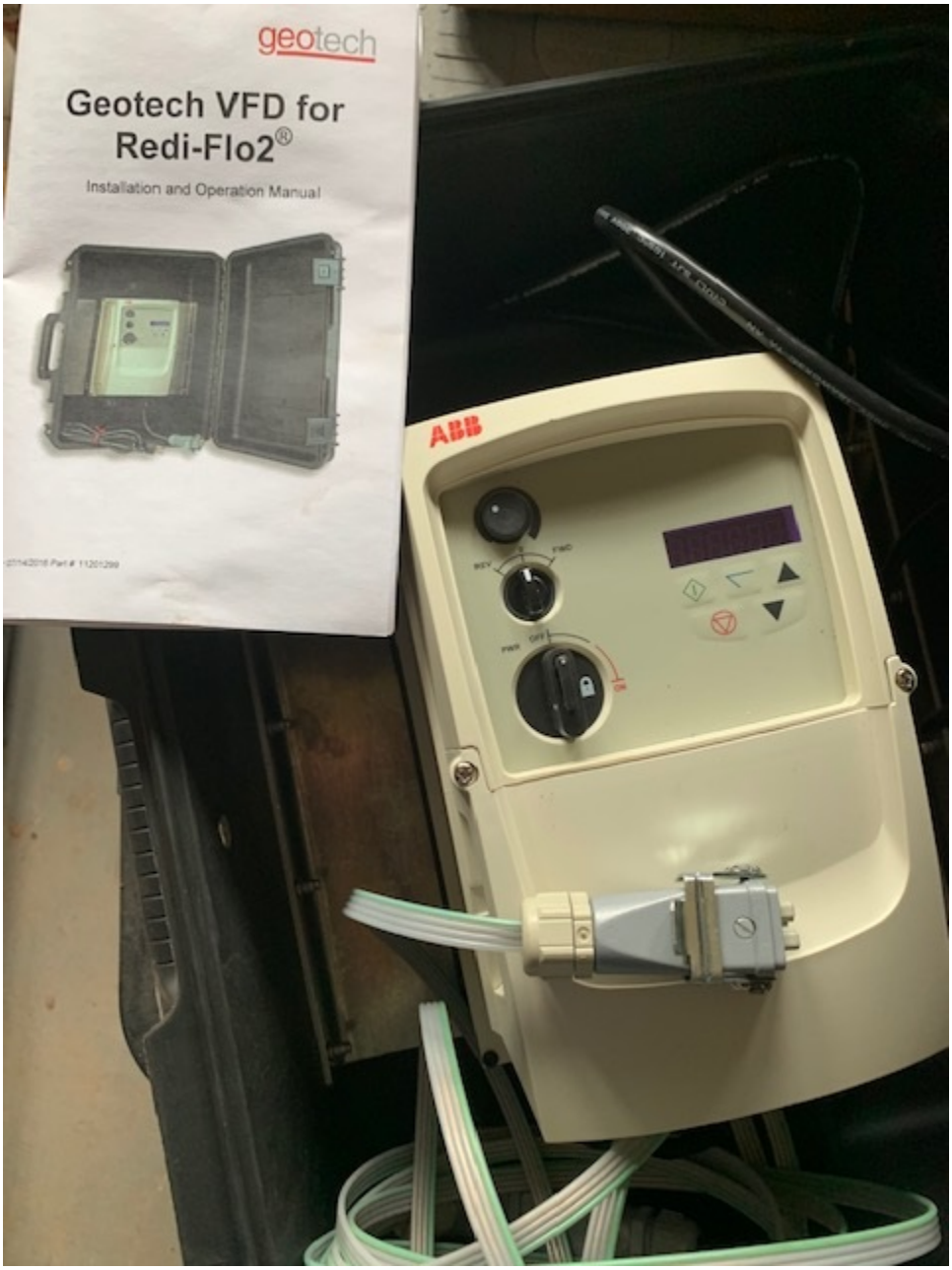
Attachment 6
Example of Semiannual VPDES Surface Water Analytical Result EDD

County Sample ID	Lab Sample ID	Date Collected	Date Analyzed	Analyte	CAS No	Symbol	Result	Qualifier	Units	Reporting Limit	Quantitation Limit	Analysis	Analytical Method
SB-1	C215847-01	06/18/13	06/24/13	Benzoic Acid	65-85-0	<	50	U	ug/L	50	50	SVOC	EPA 625
SB-1	C215847-01	06/18/13	06/20/13	Ammonia as N	7664-41-7	<	100	U	ug/L	100	100	Inorg	EPA 350.1
SB-1	C215847-01	06/18/13	06/23/13	Zinc	7440-66-6	<	10.0	U	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-1	C215847-01	06/18/13	06/24/13	Alpha-Terpineol	98-55-5	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-1	C215847-01	06/18/13	06/24/13	Phenol	108-95-2	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-1	C215847-01	06/18/13	06/23/13	Iron	7439-89-6		757	D	ug/L	50	50	Inorg	EPA 200.7
SB-1	C215847-01	06/18/13	06/19/13	Biochemical Oxygen Demand	ECL-0017		4700	D	ug/L	2000	2000	Inorg	SM 5210B
SB-1	C215847-01	06/18/13	06/24/13	3 & 4-Methylphenol	108-39-4/106-44-5	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-1	C215847-01	06/18/13	06/20/13	Total Suspended Solids	ECL-0169		8000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
SB-3	C215847-02	06/18/13	06/23/13	Zinc	7440-66-6		6.7	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-3	C215847-02	06/18/13	06/23/13	Iron	7439-89-6		2460	D	ug/L	50	50	Inorg	EPA 200.7
SB-3	C215847-02	06/18/13	06/20/13	Ammonia as N	7664-41-7		82	J	ug/L	100	100	Inorg	EPA 350.1
SB-3	C215847-02	06/18/13	06/20/13	Total Suspended Solids	ECL-0169		18000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
SB-3	C215847-02	06/18/13	06/24/13	3 & 4-Methylphenol	108-39-4/106-44-5	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-3	C215847-02	06/18/13	06/24/13	Benzoic Acid	65-85-0	<	50	U	ug/L	50	50	SVOC	EPA 625
SB-3	C215847-02	06/18/13	06/24/13	Phenol	108-95-2	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-3	C215847-02	06/18/13	06/24/13	Alpha-Terpineol	98-55-5	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-3	C215847-02	06/18/13	06/19/13	Biochemical Oxygen Demand	ECL-0017		3600	D	ug/L	2000	2000	Inorg	SM 5210B
SB-4	C215847-03	06/18/13	06/20/13	Ammonia as N	7664-41-7	<	100	U	ug/L	100	100	Inorg	EPA 350.1
SB-4	C215847-03	06/18/13	06/24/13	3 & 4-Methylphenol	108-39-4/106-44-5	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-4	C215847-03	06/18/13	06/19/13	Biochemical Oxygen Demand	ECL-0017		2100	D	ug/L	2000	2000	Inorg	SM 5210B
SB-4	C215847-03	06/18/13	06/24/13	Alpha-Terpineol	98-55-5	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-4	C215847-03	06/18/13	06/24/13	Benzoic Acid	65-85-0	<	50	U	ug/L	50	50	SVOC	EPA 625
SB-4	C215847-03	06/18/13	06/24/13	Phenol	108-95-2	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-4	C215847-03	06/18/13	06/23/13	Iron	7439-89-6		3560	D	ug/L	50	50	Inorg	EPA 200.7
SB-4	C215847-03	06/18/13	06/20/13	Total Suspended Solids	ECL-0169		33000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
SB-4	C215847-03	06/18/13	06/23/13	Zinc	7440-66-6		7.9	J	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5	C215847-04	06/18/13	06/24/13	3 & 4-Methylphenol	108-39-4/106-44-5	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-5	C215847-04	06/18/13	06/24/13	Alpha-Terpineol	98-55-5	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-5	C215847-04	06/18/13	06/20/13	Ammonia as N	7664-41-7		58	J	ug/L	100	100	Inorg	EPA 350.1
SB-5	C215847-04	06/18/13	06/19/13	Biochemical Oxygen Demand	ECL-0017		4100	D	ug/L	2000	2000	Inorg	SM 5210B
SB-5	C215847-04	06/18/13	06/23/13	Iron	7439-89-6		7640	D	ug/L	50	50	Inorg	EPA 200.7
SB-5	C215847-04	06/18/13	06/23/13	Zinc	7440-66-6		12.4	D	ug/L	10.0	10.0	Inorg	EPA 200.7
SB-5	C215847-04	06/18/13	06/24/13	Benzoic Acid	65-85-0	<	50	U	ug/L	50	50	SVOC	EPA 625
SB-5	C215847-04	06/18/13	06/24/13	Phenol	108-95-2	<	10	U	ug/L	10	10	SVOC	EPA 625
SB-5	C215847-04	06/18/13	06/20/13	Total Suspended Solids	ECL-0169		26000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
DP-1	C215847-05	06/18/13	06/20/13	Total Suspended Solids	ECL-0169		27000	D	ug/L	1000	1000	Inorg	SM 2540D-1997
DP-1	C215847-05	06/18/13	06/20/13	Ammonia as N	7664-41-7		170	D	ug/L	100	100	Inorg	EPA 350.1
DP-1	C215847-05	06/18/13	06/23/13	Iron	7439-89-6		2950	D	ug/L	50	50	Inorg	EPA 200.7
DP-1	C215847-05	06/18/13	06/24/13	Phenol	108-95-2	<	10	U	ug/L	10	10	SVOC	EPA 625
DP-1	C215847-05	06/18/13	06/23/13	Zinc	7440-66-6		12.5	D	ug/L	10.0	10.0	Inorg	EPA 200.7
DP-1	C215847-05	06/18/13	06/24/13	3 & 4-Methylphenol	108-39-4/106-44-5	<	10	U	ug/L	10	10	SVOC	EPA 625
DP-1	C215847-05	06/18/13	06/24/13	Alpha-Terpineol	98-55-5	<	10	U	ug/L	10	10	SVOC	EPA 625
DP-1	C215847-05	06/18/13	06/24/13	Benzoic Acid	65-85-0	<	50	U	ug/L	50	50	SVOC	EPA 625
DP-1	C215847-05	06/18/13	06/19/13	Biochemical Oxygen Demand	ECL-0017		8000	D	ug/L	2000	2000	Inorg	SM 5210B

Attachment 7

Photo of Geotech Wellhead Seal for

2” Redi-Flo Pump & Controller


geotech
Geotech VFD for
Redi-Flo2®
Installation and Operation Manual
ABB

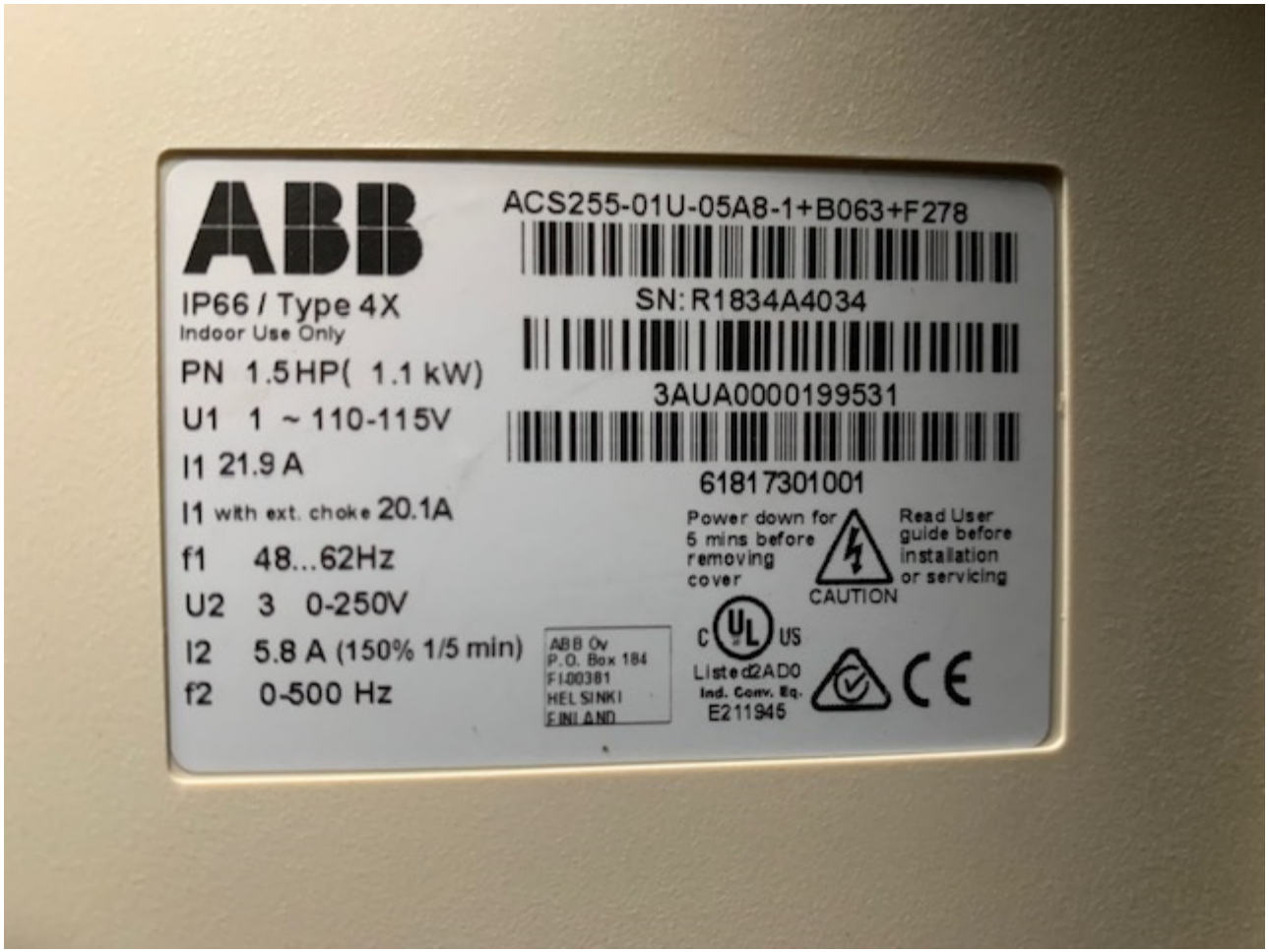


ABB
ACS255-01U-05A8-1+B063+F278
IP66 / Type 4X
Indoor Use Only
SN: R1834A4034
3AUA0000199531
61817301001
PN 1.5 HP (1.1 kW)
U1 1 ~ 110-115V
I1 21.9 A
I1 with ext. choke 20.1A
f1 48...62Hz
U2 3 0-250V
I2 5.8 A (150% 1/5 min)
f2 0-500 Hz
Power down for 5 mins before removing cover
CAUTION
Read User guide before installation or servicing
ABB Oy
P.O. Box 184
FI-00381
HELSINKI
FINLAND
c UL us
Listed 2AD0
Ind. Conv. Eq.
E211945
CE