DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

HDR Engineering, Inc. of the Carolinas

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Eric A. Wright Phone: 704 338-6719

E-mail: eric.wright@hdrinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
City of Winston-Salem Old Salisbury Road Landfill	3336 Old Salisbury Road Winston-Salem, NC 27127	34-12	.0500	November 17-20, 2014

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☒ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Eric A. Wright — Facility Representative Name (Print)
Project Engineer — Title
704 338-6719 — (Area Code) Telephone Number

Eric A. Wright — Signature
01/27/2015 — Date
Affix NC Licensed/ Professional Engineer Seal

NORTH CAROLINA PROFESSIONAL SEAL 019027 ENGINEER ERIC ALAN WRIGHT 1/27/15

440 South Church Street Suite 1000 Charlotte, NC 28202
Facility Representative Address

F-0116
NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

Winston-Salem • Forsyth County
City/County Utilities
Water • Sewer • Solid Waste Disposal

OLD SALISBURY ROAD LANDFILL
NC DENR Permit NO. 34-12

ASSESSMENT MONITORING REPORT

Including the November 2014 Groundwater Sampling Event

HDR Project No. 00162-218490-018

Forsyth County, North Carolina

January 2015

NORTH CAROLINA PROFESSIONAL SEAL 019027 ENGINEER ERIC ALAN WRIGHT

1/27/15

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1.0 INTRODUCTION

HDR Engineering, Inc. of the Carolinas (HDR), on behalf of the Winston-Salem City/County Utility Commission (the City), is hereby submitting assessment monitoring results for groundwater at the Old Salisbury Road C&D Landfill (OSR) located in Forsyth County, North Carolina. The assessment monitoring is being conducted to address the detection of benzene and tetrachloroethene (PCE) above the groundwater monitoring standards in samples collected from groundwater monitoring well MW-2R during the May 2011 and June 2011 events.

1.1. Facility Background

The OSR landfill covers approximately 56 acres and is situated within a 140-acre tract north of Friedberg Church Road and west of O1d Salisbury Road in Forsyth County, North Carolina. The site is accessed via Old Salisbury Road (State Road 3011). The Forsyth/Davidson County line borders the site to the south. Figure 1 illustrates the location of the OSR landfill. The facility was issued a permit to operate on July 3, 1996 and opened in August of the same year.

1.2. Regulatory Authority

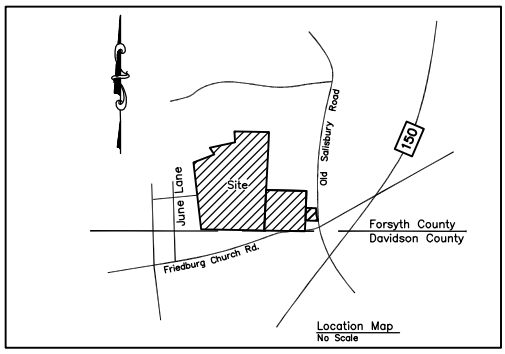
The site is operated under NC DENR facility permit number 34-12 dated November 20, 2009. The groundwater monitoring and reporting requirements are addressed in Items 16 to 26 of the permit. A Ground Water Monitoring Plan was originally prepared by S&ME and submitted by HDR with the Site Plan Application in 1995. HDR has subsequently revised this plan multiple times by letter. Ground water and surface water monitoring plans for the site are addressed by NC Solid Waste Management Rules 15A NCAC 13B .0544(b) and .0544(c) respectively. The site is currently in assessment monitoring due to detections in MW-2R.

An Assessment Monitoring Plan for MW-2R was submitted in accordance with 15A NCAC 13B .0545 by HDR on December 9, 2011. The plan was approved with two exceptions on January 17, 2012. The first exception required the location of MW-15 to be in the same flow path as MW-2R; the second required all wells to be sampled for Appendix II constituents.

In February of 2014 the City requested, and NC DENR approved, the following modifications to the facility's assessment monitoring program.

- Groundwater monitoring wells MW-1R, MW-2R, MW-4R and MW-15 will be sampled semiannually for Appendix I constituents and those additional constituents in Appendix II that have been detected in the last two years;
- Groundwater monitoring wells MW-1R, MW-2R, MW-4R and MW-15 will be sampled during every other Fall event for the entire Appendix II constituent list. The next event for this would occur in the Fall of 2015. Additional Appendix II constituents detected will be added to the sampling program for subsequent semiannual events; and
- All of the other remaining groundwater monitoring wells and surface water locations will continue to be sampled semiannually for the full Appendix I constituent list.

In May 2014, the monitoring plan for the facility was updated to incorporate the recent changes and submitted as part of the renewal package for the facility's NC DENR Permit to Operate.



LEGEND

- 810 — EXISTING CONTOURS
- PROPERTY BOUNDARY
- COUNTY LINE
- PERMIT/PHASE BOUNDARY
- 735 — GROUNDWATER CONTOURS

PROPOSED	EXISTING	ABANDONED	
○	⊕	●	MONITORING WELLS (MW & OW)
○	⊕	●	METHANE PROBES (MM)
	SW-1		SURFACE WATER

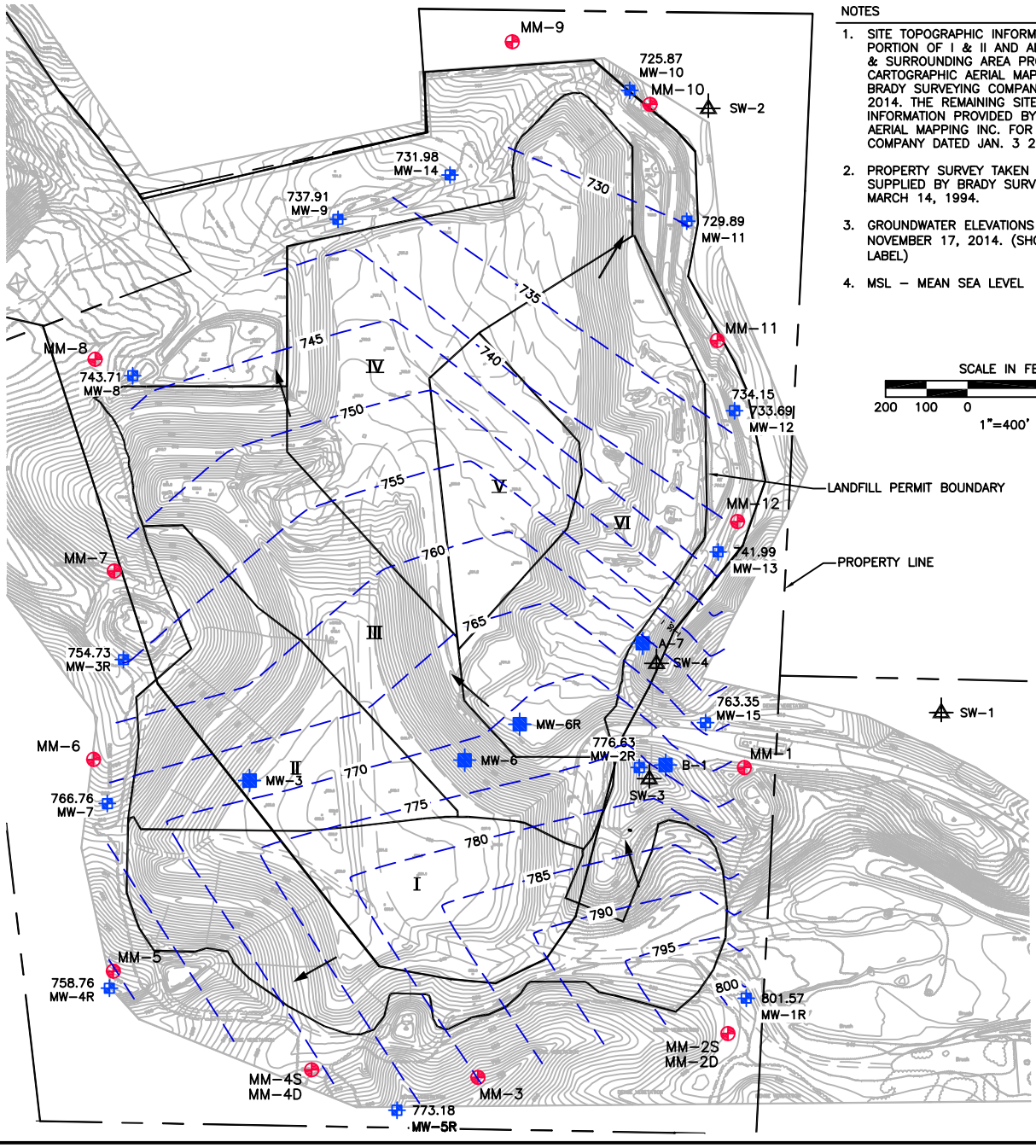
NOTES

1. SITE TOPOGRAPHIC INFORMATION FOR A PORTION OF I & II AND ALL OF PHASES III–VI & SURROUNDING AREA PROVIDED BY CARTOGRAPHIC AERIAL MAPPING, INC. FOR THE BRADY SURVEYING COMPANY DATED JAN. 3, 2014. THE REMAINING SITE TOPOGRAPHIC INFORMATION PROVIDED BY CARTOGRAPHIC AERIAL MAPPING INC. FOR BRADY SURVEYING COMPANY DATED JAN. 3 2011.
2. PROPERTY SURVEY TAKEN FROM DATA SUPPLIED BY BRADY SURVEYING, INC. DATED MARCH 14, 1994.
3. GROUNDWATER ELEVATIONS MEASURED ON NOVEMBER 17, 2014. (SHOWN NEXT TO WELL LABEL)
4. MSL – MEAN SEA LEVEL

SCALE IN FEET

200 100 0 200 400

1"=400'



PROJECT TITLE OLD SALISBURY ROAD C & D LANDFILL	PROJECT NUMBER 218490–001–018	REFERENCE SHEET LAYOUT 2
SHEET TITLE **GROUNDWATER CONTOURS AND SAMPLE LOCATIONS FALL 2014**	PROJECT MANAGER M. PLUMMER, P.E.	REFERENCE DOCUMENT 00D–03
	DATE JANUARY 2015	EXHIBIT NUMBER FIGURE 1

1.3. Geologic Characteristics

This section paraphrases the descriptions in the July 2003 Ground Water Monitoring Plan and the 2003 Design Hydrogeologic Investigation Report.

1.3.1. Regional Geologic and Hydrogeologic Frame Work

According to the 1985 Geologic Map of North Carolina, OSR is located in the Charlotte belt of the Piedmont Physiographic Province. This Province contains metamorphic and igneous plutonic rocks, which in some areas have been extensively weathered and eroded forming an undulating and well-dissected topography.

Subsurface conditions generally consist of a veneer of topsoil underlain by residual soils, saprolite, partially weathered rock, and fractured rock. There is generally a gradual transition from one material type to the next with varying thickness of each.

The area is underlain by granite rock. The bedrock is typically fractured and is overlain by highly weathered bedrock called saprolite. The saprolite varies in thickness from a few feet near bedrock outcrops to over 100 feet. The saprolitic material retains some of the original (relict) structural features of the parent rock. The nearer surface residual soils are formed by the in-place physical and chemical weathering of the saprolite and usually do not retain the relict structural features.

In the Piedmont Physiographic Province, groundwater is present within the openings created by fractures and joints within the bedrock and within the pore spaces of the overlying-saprolite. The saprolite/bedrock aquifers are primarily recharged by precipitation in the interstream areas, which infiltrates through the unsaturated zone to the water table. The depth to ground water is generally deeper beneath uplands than beneath valleys. The water table is commonly close to the top of bedrock and is more often than not, located within the saprolite. Groundwater moves laterally and downward through the saprolite and bedrock toward streams, springs, and surface water bodies. The water table surface is generally a subdued reflection of the surface topography.

1.3.2. Site Specific Topography and Drainage

Surface drainage at the subject site is primarily controlled by a north-northwesterly trending ridge within the property. Surface runoff is directed by a ridge within the site. Construction of the landfill generally mimics and replaced the natural ridge that existed prior to the landfill. This ridge directs runoff northeast, west and southwest into tributaries of South Fork Muddy Creek. The majority of surface runoff within this site is directed to South Fork Muddy Creek on the north. A small area in the extreme southeasterly section of the site appears to drain south into Miller Creek. Both the South Fork Muddy Creek and Miller Creek flow to the west where they converge with Muddy Creek. Muddy Creek flows to the south and converges with the Yadkin River.

1.3.3. Site Specific Hydrogeology

As documented in the Design Hydrogeological Investigation Report submitted by HDR on December 2, 2003, the uppermost aquifer underlying the facility is comprised of three units. The stratigraphic downward progression of the three units is saprolite transitioning into partially

weather bedrock, then competent bedrock. Ground water flow through the saprolite and partially weathered bedrock is through the soil matrix, while groundwater flow through the bedrock is primarily fracture flow.

The average effective porosity of the saprolite stratum is 17, while the saprolite transition zone has an effective porosity of 25. The effective porosity of the bedrock is significantly less at 2.

The historically calculated hydraulic conductivity (K) for the saprolite is 0.259 feet per day (ft/day) (9.1 x 10^{-5} cm/sec). The historical average hydraulic conductivities for the transition zone is 0.466 ft/day (1.65 x 10^{-4} cm/sec). The historic hydraulic conductivity of the bedrock aquifer was considerably less than either the saprolite or transition zone units with a K value of 0.043 ft/day (1.5 x 10^{-5} cm/sec). Detailed calculations of the hydraulic conductivity, flow rates, and porosity were provided in the 2003 Hydrogeological Report.

Based on historical field observations (i.e., soil boring records) and laboratory test results from the 2003 Hydrogeological Report, the uppermost aquifer beneath the facility predominantly exists within the unconsolidated saprolitic soil and transition zone units that have been classified as micaceous silty sands and sandy silts produced by the in-situ weathering of the granodiorite parent rock. Groundwater flow within the uppermost aquifer is predominantly porous flow through the unconsolidated units. There is no evidence of discrete flow patterns within the saprolite and transition zones of the uppermost aquifer resulting from relict quartz veins, dikes, healed fractures, or strong preferential alignment of minerals (i.e., foliation). In general, the flow of ground water occurs for the facility is from higher elevations onsite to lower elevations onsite under unconfined (water table) conditions regardless of the unit in which it resides. As such, the static water table generally mimics the topography.

2.0 MONITORING NETWORK

Sampling normally occurs semiannually for the site monitoring wells and four surface water monitoring locations. The groundwater monitoring locations are depicted on the Figure 1. Table 1 provides pertinent details for the existing monitoring wells.

Table 1 - Existing Groundwater Monitoring Well Details

OSR LF WELL	*Installed*	*NC Sate Plane Northing*	*NC Sate Plane Easting*	*Well Diameter (inches)*	*Well Depth (below ground)*	*Depth: Ground to Top of Screen*	*Screened Interval (ft)*	*Screened Interval Geology*	*Top Of Casing Elevation (ft MSL)*	*Ground Elevation (ft MSL)*
MW-1R	12/27/1995	820,411	1,622,983	2	60.0	45	15	Granitic saprolite	836.42	833.40
MW-2R	12/29/1995	820,974	1,622,722	2	23.0	8	15	Granitic saprolite	785.22	781.81
MW-3R	7/7/1999	821,237	1,621,463	2	27.0	12	15	Granitic saprolite	776.60	772.90
MW-4R	12/28/1995	820,435	1,621,428	2	20.0	5	15	Granitic saprolite	767.96	765.70
MW-5R	12/29/1995	820,137	1,622,130	2	32.0	17	15	Granitic saprolite	784.36	782.30
MW-7	12/28/1995	820,886	1,621,424	2	48.0	33	15	Granitic saprolite	803.66	802.10
MW-8	7/7/1999	821,930	1,621,485	2	27.0	12	15	Granitic saprolite	762.50	759.80
MW-9	8/11/2004	822,311	1,621,986	2	60.0	45	15	Sand	790.28	788.04
MW-10	8/10/2004	822,626	1,622,699	2	21.0	6	15	Sand	738.21	735.70
MW-11	8/10/2004	822,307	1,622,838	2	20.0	5	15	Sand	732.59	730.35
MW-12	8/9/2004	821,844	1,622,955	2	16.0	6	10	Silt	739.07	736.41
MW-13	8/9/2004	821,500	1,622,915	2	20.0	5	15	Sand	751.23	749.19
MW-14	8/11/2004	822,420	1,622,260	2	60.0	45	15	Sand	783.88	781.44
MW-15	4/6/2012	821,083	1,622,884	2	48.2	33.2	15	Bedrock	802.85	800.58

Groundwater monitoring well MW-1R is located hydraulically upgradient of the landfill and is considered as the background well for the site. Upstream surface water (SW-1) and downstream surface water (SW-2) samples are obtained from the adjacent stream to the east. Surface water samples (SW-3 and SW-4) are obtained from the drainage channel in the vicinity of MW-2R. SW-3 is located south of the entrance road near MW-2R; SW-4 is located on the north side of the entrance road, downstream of SW-3.

The sampled locations were evaluated by the methods and for the analytical parameters listed in Table 2. Samples were collected from each of the landfill groundwater wells using the dedicated QED micropurge pumps that were installed in August 2004, except MW-15, which is sampled with a bailer. Field measurements of pH, conductivity, redox, temperature, turbidity, dissolved oxygen, and depth to groundwater are collected for each well in addition to the parameters listed in Table 2.

Table 2 - Sampling Schedule

Method	Parameter(s)	Frequency	Monitoring Wells	Surface Water
EPA 300.0	Sulfate	2x/year	All	All
EPA 6010	Trace Metals	2x/year	All	All
EPA 7470	Mercury	2x/year	All	All
EPA 8081	Pesticides	Fall of odd years (2015)	All	None
	Pesticides (Previously detected, see below)	2x/year	MW-1R, MW-2R, MW-4R & MW-15	None
EPA 8082	PCB's	Fall of odd years (2015)	All	None
	PCB's (Previously detected, see below)	2x/year	MW-1R, MW-2R, MW-4R & MW-15	None
EPA 8151	Herbicides	Fall of odd years (2015)	All	None
	Herbicides (Previously detected, see below)	2x/year	MW-1R, MW-2R, MW-4R & MW-15	None
EPA 8260	App I VOCs + Tetrahydrofuran	2x/year	All	All
	Appendix II VOCs	Fall of odd years (2015)	All	None
EPA 8270	SVOCs	Fall of odd years (2015)	All	None
	SVOCs (Previously detected, see below)	2x/year	MW-1R, MW-2R, MW-4R & MW-15	None
SM 2320B	Alkalinity	2x/year	All	All
SM 2540C	Total Dissolved Solids	2x/year	All	All
SM 4500	Chloride, Cyanide, Sulfide	2x/year	All	All
Field	Temperature, Specific conductance, Dissolved Oxygen, Redox, Turbidity, pH	2x/year	All	All
Field	Total well depth and static water level	2x/year	All	NA

Current Detects for:

EPA Method 8081: 4,4'-DDD, 4,4'-DDT, Aldrin, alpha-BHC, delta-BHC, Endosulfan II, Endrin, Endrin aldehyde, Heptachlor, Methoxychlor
EPA Method 8082: None.
EPA Method 8151: 2,4,5-TP (Silvex), 2,4-D
EPA Method 8270: Benzo(a)anthracene, Bis(2-ethylhexyl)phthalate, Chrysene

3.0 DATA COLLECTION

As described in the previous section, the monitoring program consists of collection and analysis of groundwater samples from 14 wells. The last sampling event occurred over four days (November 17 to 20, 2014). Pace Analytical Laboratories, Inc. (Pace), sampled the groundwater monitoring wells during the reporting period on behalf of HDR. Groundwater elevations were measured at all wells within a two hour window on November 17, 2014.

The depth from the top of the PVC casing to groundwater is measured to the nearest 0.01 foot prior to purging each well. This depth to water, when subtracted from the reference datum, provides a groundwater surface elevation. Table 3 provides the recent water level readings. Figure 2 illustrates the relative groundwater elevations in the on-site monitoring wells over time. During the November 2012 and 2013 events, the water level in MW-3R was somewhere in the zone occupied by the pump. The MW-3R elevations illustrated on Figure 2 for those dates is the point where the water level meter encountered the dedicated pump.

Table 3 - Recent Water Level Readings

	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-7	MW-8
11/17/2014	801.57	776.63	754.73	758.76	773.18	766.76	743.71

	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15
11/17/2014	737.91	725.87	729.89	733.69	741.99	731.98	763.35

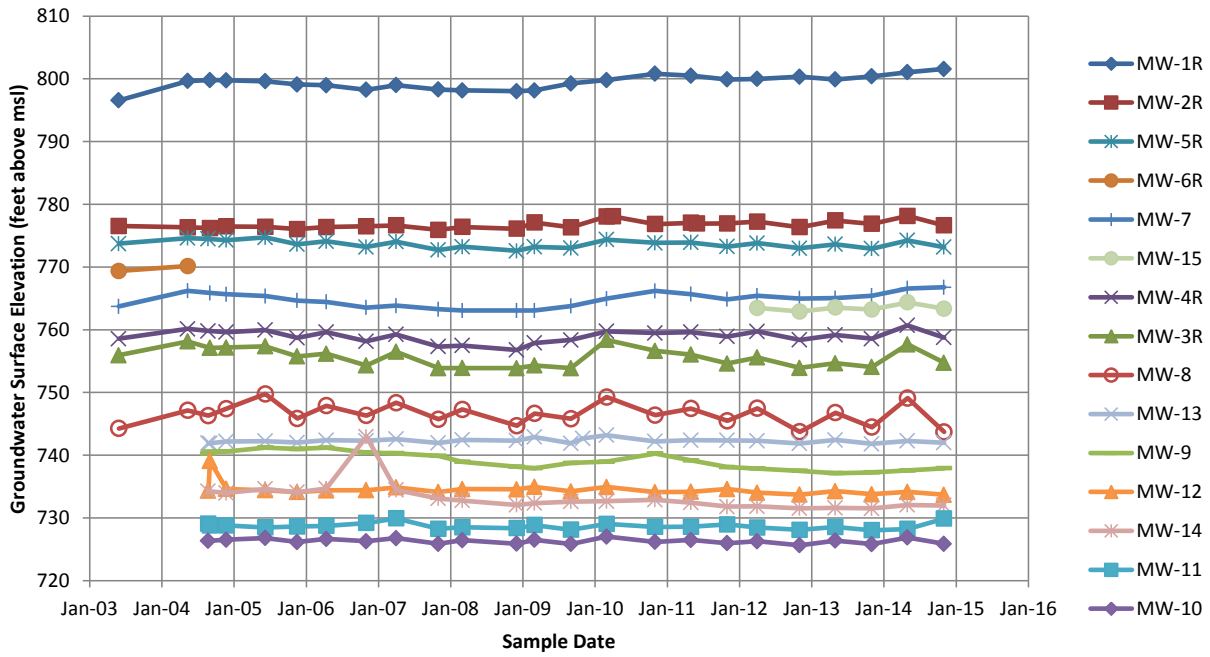


Figure 2 - Historic Groundwater Elevations

A variable speed micro-purge pump (or bailer in the case of MW-15) was used to evacuate groundwater from each well until stabilization of measured field parameters (pH, conductivity, redox, temperature, turbidity, and dissolved oxygen) occurred. Following completion of purging activities, the wells were sampled using the same pump and field parameters (pH, specific conductance, redox, turbidity, dissolved oxygen, and temperature) were recorded on field sampling logs. Copies of these logs are provided in Appendix B.

Table 3 illustrates the hydraulic gradients calculated between representative well pairs and the corresponding flow velocities. The flow velocities have been calculated based on the values for hydraulic conductivity (0.466 ft/day) and effective porosity (25%), as presented in Table 2-9 of the December 2003 OSR Design Hydrogeologic Investigation Report for the landfill. Similar numbers presented in previous reports were based on a hydraulic conductivity (0.259 ft/day) and effective porosity (18.6%), as presented on pages 3 & 5 of the August 2002 version of the OSR Design Hydrogeologic Investigation Report. The current assumptions result in higher flow rates than those previously estimated.

The minimum and maximum values are based on the historic data collected from the site beginning in May 2003. HDR estimates a travel time of about four years between MW-2R and MW-15, based on the estimated flow rate of 48 ft/yr and a distance of 195 feet.

Table 4 - Hydraulic Gradient & Flow Velocity

Hydraulic Gradient (ft/ft) / Flow Velocity (ft/yr)	Based on Historic Record							
	Minimum	Maximum	April 2012	Nov 2012	April 2013	Nov 2013	May 2014	Nov 2014
MW-1R to MW-4R	0.024 / 17	0.027 / 18	0.026 / 18	0.027 / 18	0.026 / 18	0.027 / 18	0.026 / 18	0.028 / 19
MW-1R to MW-2R	0.032 / 22	0.040 / 27	0.037 / 25	0.039 / 26	0.036 / 25	0.038 / 26	0.037 / 25	0.040 / 27
MW-2R to MW-13	0.060 / 41	0.064 / 44	0.062 / 42	0.062 / 42	0.062 / 43	0.063 / 43	0.064 / 44	0.062 / 42
MW-13 to MW-10	0.013 / 9	0.014 / 10	0.014 / 10	0.014 / 10	0.014 / 10	0.014 / 9	0.013 / 9	0.014 / 10
MW-2R to MW-15	0.068 / 46	0.071 / 48	0.071 / 48	0.069 / 47	0.071 / 48	0.070 / 48	0.071 / 48	0.068 / 46

Table 5 - Event Summary – November 2014

SWSL	2L	units	Row Labels	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4
			µg/L																		
			EPA 300.0																		
250000	250000	µg/L	Sulfate	1720	117000	3740	143000	8180	1360		2100		12800	32800	8660		43800	3130	5620	16800	17600
			EPA 6010																		
10	10	µg/L	Arsenic							2.6	3.5							5.9	6.2		
100	700	µg/L	Barium	142	339	221	305	58.2	111	38	193	262	96.8	59.2	130	193	41.5	276	171	206	82.8
1	4000	µg/L	Beryllium									1.4			1.2	0.6		1.1	0.64		
1	2	µg/L	Cadmium															0.7			
10	10	µg/L	Chromium		3.4			4.8							3	4.5		13	3.2		
10	1000	µg/L	Cobalt		25	13.3	82						2.6						4.4	3.4	
10	1000	µg/L	Copper		9.6										3.8	4.8		16.4	3.2		
300	300	µg/L	Iron	85.8	2580	49700	126	221	76.5	529	55.9	1160	35700	758	2720	2620	233	155000	75000	5270	638
10	15	µg/L	Lead			2.7						4.1	3.6		5.4			18.3	7.4		
50	50	µg/L	Manganese	2.9	9880	9380	1040	2.6	22.9	19.9	7.6	130	2030	199	55.6	120	33	1760	1010	5080	739
50	100	µg/L	Nickel		25.9		7.2							4.1		5.3		8.7	3.1	4.8	
10	20	µg/L	Selenium															7			
NE	NE	µg/L	Sodium	10600	58300	2770	55400	13700	16600	7810	14600	6860	10000	12800	10700	14400	24000	12500	17600	29900	17800
25	300	µg/L	Vanadium			2.8	2.7	5.6					3.6		7.1	5.5		37	11.6		
10	1000	µg/L	Zinc		16.8		7.2				5.3	6.2			13.7	13.3	5.3	69.8	28		
			EPA 7470																		
0.2	1	µg/L	Mercury									0.33									
			EPA 8260																		
5	6	µg/L	1,1-Dichloroethane		1.1				1.3												
1	6	µg/L	1,4-Dichlorobenzene		0.4																
100	NE	µg/L	4-Methyl-2-pentanone (MIBK)									2.2									
1	1	µg/L	Benzene		2.5		0.42					0.44								0.54	
10	3000	µg/L	Chloroethane		2.1																
5	70	µg/L	cis-1,2-Dichloroethene		0.5				0.73			0.35									
1	600	µg/L	Ethylbenzene									0.73									
5	500	µg/L	m&p-Xylene						1.1			1.1									
1	5	µg/L	Methylene Chloride		3.7				2.9												
NE	NE	µg/L	o-Xylene		0.33				0.36			0.65									
1	0.7	µg/L	Tetrachloroethene		2																
NS	NS	µg/L	Tetrahydrofuran		79.2		15.9		8.8			106					15.5		18.4	10.2	
1	3	µg/L	Trichloroethene		0.85																
1	2000	µg/L	Trichlorofluoromethane		2.4				1.2		0.96					0.57	3.9				0.27
1	0.03	µg/L	Vinyl chloride		1.2																
			SM 2320B																		
NE	NE	µg/L	Alkalinity, Total as CaCO3	37600	453000	177000	286000	24000	62400	22800	18300	42200	143000	40500	36200	42300	54700	63700	2390	389000	140000
			SM 4500-Cl-E																		
NE	250000	µg/L	Chloride	7090	49800	2940	50500	15500	4300	1350	3610	2220	15000	8240	5870	3720	146000	19500	28200	27000	24300
			SM 4500-CN-E																		
10	70	µg/L	Cyanide	4.4	4.2	10.4	4.3	5.1													
			SM 4500-S2D																		
1000	NE	µg/L	Sulfide									260	130		151				142		
			SM 2540C																		
NE	500000	µg/L	Total Dissolved Solids	120000	769000	191000	692000	163000	138000	64000	141000	86000	228000	135000	119000	119000	464000	122000	117000	473000	222000
			°C																		
			Field																		
			Field Temperature	14.8	13.2	13.2	13.7	12.9	13.7	13	12.4	15.3	15.4	15.4	13.8	11.9	16.7	10.8	11.2	12.5	10
			µmhos/cm																		
			Field																		
			Field Specific Conductance	138	1150	363	971	184	186	59	161	106	440	203	120	159	647	247	324	885	344
			mg/L																		
			Field																		
			Oxygen, Dissolved	1	0.5	6.3	0.5	5	0.5	2.3	8.3	0	0.5	0.5	0.5	3.8	1.25	0.5	2.11	4.5	8.18
			mV																		
			Field																		
			REDOX	194	38	13	158	198	184	224	252	198	-61	101	232	242	182	7	-36	-45	27
			NTU																		
			Field																		
			Turbidity	1.7	3.53	5.2	10	3.6	1.2	9.1	2	98	9.9	5.2	152	7.8	20.1	363.9	136.9	16.6	28.3
			Std. Units																		
			Field																		
			Field pH	5.6	6.1	6	5.9	6	5.6	5.7	5.5	5.1	5.9	5.9	5.6	5.6	6.2	6.1	6.3	6.6	6.7
			feet																		
			Field																		
			Static Water Level	34.85	8.59	21.87	9.2	11.18	36.9	18.79	52.37	12.34	2.7	5.38	9.24	51.9	39.5				
			Total Well Depth	60	21	27	20	30	48	27	60	21	20	15.58	20	60	50.85				

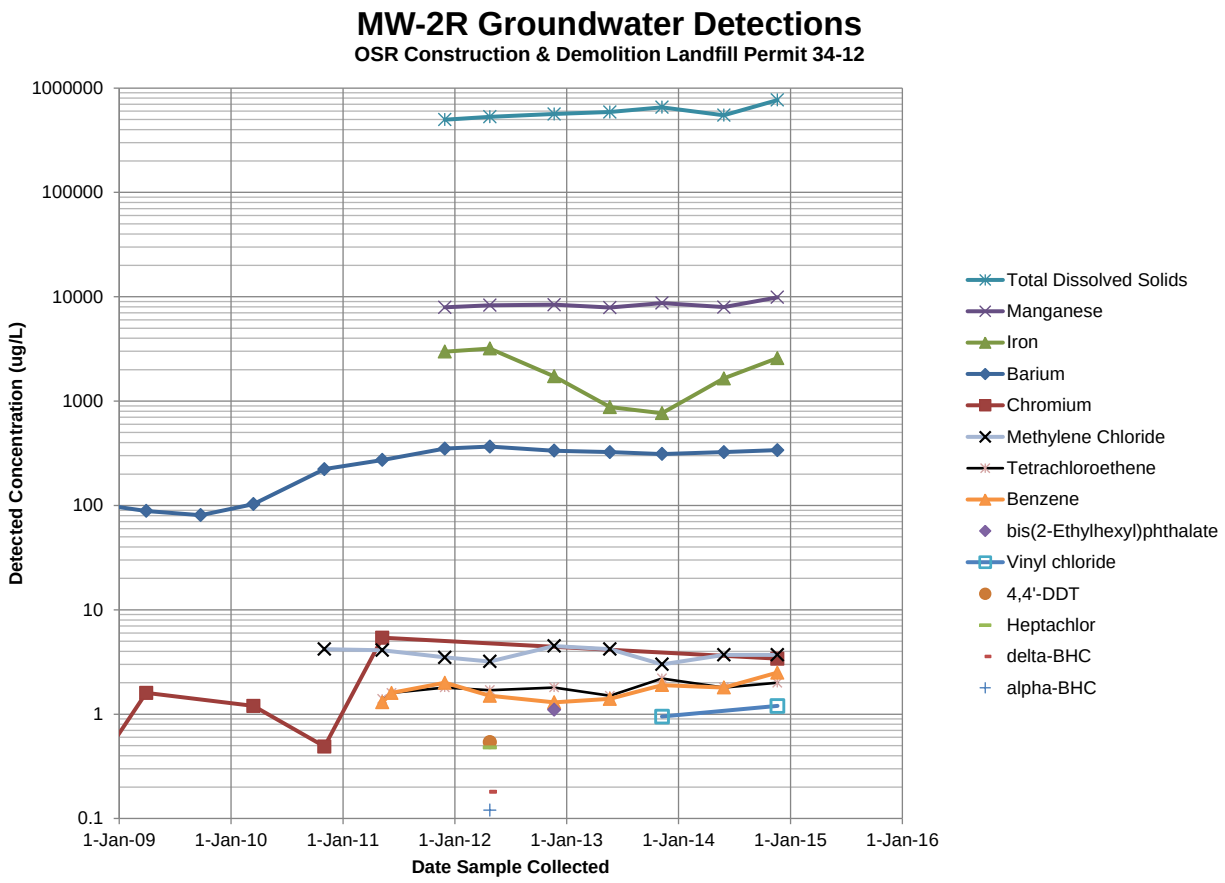
To distinguish non detections (ND) from not sampled (NS), refer to complete laboratory analysis. This table represents both ND and NS as blanks.

4.0 RESULTS

4.1. Detected GW Constituents

Detections of Benzene and Tetrachloroethene above the groundwater standards triggered assessment monitoring for well MW-2R. HDR is monitoring the status of selected detections at MW-2R as shown on Figure 3.

Figure 3 - Selected Ground Water Detections in MW-2R



A summary of the constituents detected during this period, along with the NC DENR solid waste section limits (SWSL) and applicable maximum concentration levels, are provided in Table 5. There were thirty-one detections above the 2L standard; these detections comprised seven parameters in thirteen locations during this event. Methylene chloride was detected in MW-2R and MW-7 between the SWSL and 2L standards during this event.

Appendix A contains historical summaries of detections by well and by parameter. The complete laboratory analyses are provided in Appendix B. The field data sheets are provided in Appendix C. A Microsoft Excel file containing the analysis data in NC DENR electronic data deliverable format is include as part of Appendix D.

The constituents detected above 2L groundwater standards for this event are as follows.

- Chromium in SW-1
- Iron in MW-2R, MW-3R, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14 and all four surface water samples.
- Manganese in MW-2R, MW-3R, MW-4R, MW-10, MW-11, MW-12, MW-13, MW-14 and all four surface water samples.
- Benzene in MW-2R.
- Tetrachloroethene in MW-2R.
- Vinyl Chloride in MW-2R.
- Total dissolved solids in MW-2R and MW-4R.

Only Appendix I constituents, were detected during this sampling event.

4.2. Landfill Gas

Landfill gas is measured at MW-2R and selected wells in the vicinity during each groundwater event. These results do not indicate the presence of methane gas in these wells. The results do indicate the presence of carbon dioxide above ambient levels in MM-1 and recently in MW-13. The City is responsible for quarterly sampling of all methane monitoring wells and the related reporting, which is not included in this document.

Table 6 - Methane Gas Readings

Date	Time	ID #	CH_4 (%)	CO_2 (%)	O_2 (%)
25-Apr-12	9:50	MM-1	0.0%	4.8%	16.3%
25-Apr-12	10:05	MW-13	0.0%	0.5%	20.8%
25-Apr-12	9:55	MW-15	0.0%	0.2%	21.0%
25-Apr-12	9:27	MW-1R	0.0%	0.2%	20.8%
25-Apr-12	9:40	MW-2R	0.0%	0.1%	21.0%
19-Nov-12	8:26	MM-1	0.0%	4.8%	16.7%
19-Nov-12	8:55	MW-13	0.0%	0.5%	20.4%
19-Nov-12	8:46	MW-15	0.0%	0.0%	20.7%
19-Nov-12	8:17	MW-1R	0.0%	0.0%	20.6%
19-Nov-12	8:35	MW-2R	0.0%	0.1%	20.7%
20-May-13	8:51	MM-1	0.0%	4.4%	16.2%
20-May-13	8:35	MW-13	0.0%	0.4%	20.5%
20-May-13	8:43	MW-15	0.0%	0.2%	20.8%
20-May-13	9:09	MW-1R	0.0%	0.0%	21.1%
20-May-13	8:55	MW-2R	0.0%	0.1%	21.0%
8-Nov-13	7:40	MM-1	0.0%	4.5%	18.0%
8-Nov-13	7:55	MW-13	0.0%	1.2%	20.8%
8-Nov-13	7:45	MW-15	0.0%	1.0%	20.8%
8-Nov-13	7:25	MW-1R	0.0%	0.2%	21.1%

Date	Time	ID #	CH_4 (%)	CO_2 (%)	O_2 (%)
8-Nov-13	7:50	MW-2R	0.0%	0.1%	21.2%
27-May-14	11:05	MM-1	0.0%	4.0%	16.9%
27-May-14	11:27	MW-13	0.0%	0.6%	19.4%
27-May-14	11:17	MW-15	0.0%	0.6%	19.8%
27-May-14	10:51	MW-1R	0.0%	0.1%	20.9%
27-May-14	11:10	MW-2R	0.0%	0.1%	20.3%
17-Nov-14	11:52	MM-1	0.0%	3.4%	19.0%
17-Nov-14	11:39	MW-13	0.0%	2.7%	19.4%
17-Nov-14	11:46	MW-15	0.0%	0.2%	21.2%
17-Nov-14	12:13	MW-1R	0.0%	0.1%	21.5%
17-Nov-14	12:00	MW-2R	0.0%	0.6%	21.2%

Highlighted cells are outside of normal atmospheric ranges

5.0 SUMMARY & RECOMMENDATIONS

No constituents from the expanded Appendix II list were detected during this event. The level of detections from this event is generally consistent with previous events. HDR intends to continue assessment groundwater monitoring as outlined in the request of February 2014 and reiterated in the recently revised monitoring plan. No new actions are recommended at this time.

A

Appendix A – Summary of Groundwater Monitoring Results

A.1 Detections by Well Location

A.2 Detections by Date

Facility Permit 34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value Row Labels	Nov-14	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09
			µg/L														
			MW-1R														
NE	NE	µg/L	Alkalinity, Total as CaCO3	37600	30000	28100	29800	26300	27100	27500							
10	10	µg/L	Arsenic														
100	700	µg/L	Barium	142	124	106	109	91.7	93.8	82.6			84.7	85.4		85.3	92.8
10	0.05	µg/L	Benzo(a)anthracene					1.4									
15	3	µg/L	bis(2-Ethylhexyl)phthalate					2.4									
100	700	µg/L	Carbon Disulfide														
NE	250000	µg/L	Chloride	7090	5600	5880	5910	5320	5350								
10	10	µg/L	Chromium										1.4	0.96		1.4	2
10	5	µg/L	Chrysene					1.5									
10	70	µg/L	Cyanide	4.4													
300	300	µg/L	Iron	85.8	52.9												
10	15	µg/L	Lead														
50	50	µg/L	Manganese	2.9													
0.2	1	µg/L	Mercury														
1.0	5.0	µg/L	Methylene Chloride														
10	20	µg/L	Selenium														
10	20	µg/L	Silver										0.51			0.29	0.48
NE	NE	µg/L	Sodium	10600	10800	9940	9080	9180	9440	7670							
250000	250000	µg/L	Sulfate	1720													
1	600	µg/L	Toluene														
NE	500000	µg/L	Total Dissolved Solids	120000	91000	103000	84000	95000	93000	95000							
			MW-2R														
5	6	µg/L	1,1-Dichloroethane	1.1	0.83	1.3	1.2	1.2	1.1		1.2		1.1				
5	350	µg/L	1,1-Dichloroethene						36.6		38.7						
1	6	µg/L	1,4-Dichlorobenzene	0.4													
2	50	µg/L	2,4,5-TP (Silvex)			0.23											
2	70	µg/L	2,4-D			1.1											
100	4000	µg/L	2-Butanone (MEK)														
50	NE	µg/L	2-Hexanone				0.48										
0.1	0.1	µg/L	4,4'-DDT						0.54								
100	6000	µg/L	Acetone				20.3				3.7						
0.05	2	µg/L	Aldrin						0.12								
NE	NE	µg/L	Alkalinity, Total as CaCO3	453000	344000	349000	363000	277000	196000		219000	165000					
0.05	0.006	µg/L	alpha-BHC						0.12								
6	1000	µg/L	Antimony		5.4												
10	10	µg/L	Arsenic														
100	700	µg/L	Barium	339	324	311	324	335	366		351		273	223		103	80.7
1	1	µg/L	Benzene	2.5	1.8	1.9	1.4	1.3	1.5		2	1.6	1.3				
15	3	µg/L	bis(2-Ethylhexyl)phthalate					1.1									
1	2	µg/L	Cadmium														
NE	250000	µg/L	Chloride	49800	50500	56700	50000	64000	61500		62400						
10	3000	µg/L	Chloroethane	2.1													
5	70	µg/L	Chloroform					0.16			0.26		0.36				
10	10	µg/L	Chromium	3.4									5.4	0.49		1.2	
5	70	µg/L	cis-1,2-Dichloroethene	0.5	0.38	0.41	0.26	0.25	0.33		0.46		0.26				
10	1000	µg/L	Cobalt	25	22.8	19.2	18.2	15.2	14.8		11.8						
10	1000	µg/L	Copper	9.6													
10	70	µg/L	Cyanide	4.2													
0.05	0.019	µg/L	delta-BHC						0.18								
0.1	2	µg/L	Endrin					0.27									
0.1	2	µg/L	Endrin aldehyde					0.23	0.28								
0.05	0.008	µg/L	Heptachlor						0.48								
300	300	µg/L	Iron	2580	1650	766	877	1730	3190		2980						
10	15	µg/L	Lead														
5	500	µg/L	m&p-Xylene								0.66		0.74				
50	50	µg/L	Manganese	9880	7950	8710	7880	8400	8280		7920						
0.2	1	µg/L	Mercury														
NS	NS	µg/L	Methane									1280					
1	40	µg/L	Methoxychlor						0.83								
1	5	µg/L	Methylene Chloride	3.7	3.7	3	4.2	4.5	3.2		3.5		4.1	4.2			
10	6	µg/L	Naphthalene			0.86	1.3	1.6	1.9								
50	100	µg/L	Nickel	25.9	20.6	27.1	20.7	21.8	22.3		20.9						
NS	NS	µg/L	Nitrogen, Ammonia									0.12					
NE	NE	µg/L	o-Xylene	0.33	0.31	0.54	0.54	0.63	1		1.2		0.84				
10	20	µg/L	Selenium		16.5												
10	20	µg/L	Silver						5.2		5		2.5	0.85		0.67	0.68
NE	NE	µg/L	Sodium	58300	59700	46200	45700	43400	38400		31800	27200					
250000	250000	µg/L	Sulfate	117000	136000	128000	115000	79500	95000		96300						
1	0.7	µg/L	Tetrachloroethene	2	1.8	2.2	1.5	1.8	1.7		1.8	1.6	1.4				
NS	NS	µg/L	Tetrahydrofuran	79.2	72.6	99.6	111	93.2	152		197	274	226				
NE	500000	µg/L	Total Dissolved Solids	769000	549000	654000	589000	564000	531000		498000						
1	3	µg/L	Trichloroethene	0.85	0.71	0.89	0.68	0.77	0.82		0.88		0.65				
1	2000	µg/L	Trichlorofluoromethane	2.4	3.7	12	12.1	16.9	20.9		20.1		31.6	36.1	21.9	22.2	

Old Salisbury Road Landfill (C&D)

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
																5.8											
74.3	85	90.3	105	81	94	82	78	48	95		96.3	460	120	100	130	280	87	150	110	130	150	160	100	290	100	180	224
																						28					23
0.88	0.64	0.49							2		3.5		4.3	2.3	5	22	6.6	6.6		5.2	7.8	12	49	11	3	6	
												22				10								12			6
																										0.2	1.8
																					13						
								5.5																			
	0.62	0.43																									
																21											
																											86
																						11					
88.5	98.8	102	107	79	90	52	62	43	52		55	60	56	140	100	160	280	61	180	120	150	1100	190	340	200	160	350
														1.9											3		
	3.4																										
1.6	0.5	0.79										2.2		2.1		16	16	3.9	3	14	7.8	210	34	43	4	9	12
																7	8.9		6.5	6.9		68	19	31	14	8	26
							0.34																				0.4
																					13						
0.58	1.2	0.93																							6		

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Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value Row Labels	Nov-14	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09
25	300	µg/L	Vanadium			5.5											
1	0.03	µg/L	Vinyl chloride	1.2		0.95											
5	500	µg/L	Xylenes (Total)					0.98	1.6								
10	1000	µg/L	Zinc	16.8		12.2	21.1	24.5	35.2		33.3						
			MW-3R														
NE	NE	µg/L	Alkalinity, Total as CaCO3	177000	155000	155000	175000	142000	150000		155000						
10	10	µg/L	Arsenic		8.9											4	
100	700	µg/L	Barium	221	205	201	216	173	228		237		301	302		314	289
15	3	µg/L	bis(2-Ethylhexyl)phthalate						5.5								
1	2	µg/L	Cadmium													0.82	
100	700	µg/L	Carbon Disulfide														26.1
NE	250000	µg/L	Chloride	2940	3260	3620	3860	3920									
10	10	µg/L	Chromium														
10	1000	µg/L	Cobalt	13.3		53.5	64.1		16.4								
10	70	µg/L	Cyanide	10.4		7.1	8.1	9.1	6.5								
300	300	µg/L	Iron	49700	38200	31300	34100	25300	41500		40300						
10	15	µg/L	Lead	2.7													
50	50	µg/L	Manganese	9380	9260	9990	9630	11600	9310		7310						
0.2	1	µg/L	Mercury														
10	20	µg/L	Selenium														
10	20	µg/L	Silver										0.6			0.45	1
NE	NE	µg/L	Sodium	2770													
250000	250000	µg/L	Sulfate	3740	4230	3400	5070	5420	6860								
100	2E+06	µg/L	Tin				5.8										
NE	500000	µg/L	Total Dissolved Solids	191000	187000	193000	175000	172000	168000		180000						
25	300	µg/L	Vanadium	2.8													
10	1000	µg/L	Zinc				10.5										
			MW-4R														
0.1	0.1	µg/L	4,4'-DDT						0.14								
NE	NE	µg/L	Alkalinity, Total as CaCO3	286000	222000	224000	203000	174000	64300	143000							
10	10	µg/L	Arsenic														
100	700	µg/L	Barium	305	264	296	375	400	407	328			126	335		55.9	334
1	1	µg/L	Benzene	0.42	0.28	0.27											
1	2	µg/L	Cadmium														
NE	250000	µg/L	Chloride	50500	29700	36500	33700	34500	33200	29200							
1	3	µg/L	Chloromethane										0.15				
10	10	µg/L	Chromium										1.3	0.68		1.3	5.4
10	1000	µg/L	Cobalt	82	46.6	49.4	35.3	35.5	21.5	15							
10	70	µg/L	Cyanide	4.3		5.9											
0.05	0.019	µg/L	delta-BHC						0.069								
0.1	42	µg/L	Endosulfan II					0.12									
300	300	µg/L	Iron	126		89.5	158	344	145	368							
10	15	µg/L	Lead														4.8
50	50	µg/L	Manganese	1040	641	688	496	541	370	257							
0.2	1	µg/L	Mercury														
1	5	µg/L	Methylene Chloride														
50	100	µg/L	Nickel	7.2		5.3											
10	20	µg/L	Selenium		11.5												
10	20	µg/L	Silver										0.88	1.3			2.4
NE	NE	µg/L	Sodium	55400	39700	42600	42600	43600	40400	35300							
250000	250000	µg/L	Sulfate	143000	85200	113000	97600	73600	98700	61800							
NS	NS	µg/L	Tetrahydrofuran	15.9	11.8	11.7	8.5	13.5	8.8								
NE	500000	µg/L	Total Dissolved Solids	692000	445000	496000	413000	435000	374000	345000							
25	300	µg/L	Vanadium	2.7													
10	1000	µg/L	Zinc	7.2			13.6										

Old Salisbury Road Landfill (C&D)

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
															7.4	8.4	18	31		5.9							
252	231	293	273	310	230	290	300	300	340		270	200	220	13	370	400	950	1500	300	52		1400	860	620	800	790	1230
					2																						
3.3																											
		0.63							2.3		3.7	2.3			15	19	50	100		24		77	25	16	28	20	9
											14				21	35	53	80		40		39	32	26	27	15	15
																								0.2			0.7
	11.8	4.9	18.1	24																							
0.29	1.5	0.87																									
											9.2					12	5.6			7.5							
58.3	263	172	287	200	220	220	180	150	140		380	97	94	86	61	900	550	350	570	860	950	2000	850	650	280	720	595
																											7
1.2	0.58	0.4									14	2.6	5.5	5		95	38	28		60	110	300	130	55		47	21
											18		5.3	6		36	14	8.1	9.5	40	50	76	43	29	12	16	17
																				0.36		0.21				0.3	1.7
																					10						
	2.6	0.94																							6		

Facility Permit 34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Row Labels	Nov-14	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09
			MW-5R														
100	6000	µg/L	Acetone														
NE	NE	µg/L	Alkalinity, Total as CaCO3	24000	31900	31700	34800	31200	134000	32800							
10	10	µg/L	Arsenic													4.2	
100	700	µg/L	Barium	58.2	54.4	53.9	57.7	53.4	57.5	85.2			63.7	53		54.3	66.8
15	3	µg/L	bis(2-Ethylhexyl)phthalate					1									
1	2	µg/L	Cadmium														
100	700	µg/L	Carbon Disulfide														
NE	250000	µg/L	Chloride	15500	13900	15200	16200	16100	16100	16400							
1	3	µg/L	Chloromethane														
10	10	µg/L	Chromium	4.8	5.6				5.2	14.7			7.6	5.8		5	8.6
10	70	µg/L	Cyanide	5.1													
300	300	µg/L	Iron	221	123		126	102	209	3540							
10	15	µg/L	Lead														
50	50	µg/L	Manganese	2.6	6.1					43.5							
0.2	1	µg/L	Mercury														
1	5	µg/L	Methylene Chloride														
10	20	µg/L	Silver										0.57	0.16		0.46	0.6
NE	NE	µg/L	Sodium	13700	13600	13800	13000	14500	14200	13300							
250000	250000	µg/L	Sulfate	8180	8060	8310	11200	8400	7910	7020							
NE	500000	µg/L	Total Dissolved Solids	163000	167000	154000	131000	157000	149000	139000							
25	300	µg/L	Vanadium	5.6						13							
10	1000	µg/L	Zinc		11.4					15.3							
			MW-6R														
10	10	µg/L	Arsenic														
100	700	µg/L	Barium														
10	10	µg/L	Chromium														
10	15	µg/L	Lead														
0.2	1	µg/L	Mercury														
			MW-7														
1	200	µg/L	1,1,1-Trichloroethane										0.82				
5	6	µg/L	1,1-Dichloroethane	1.3	0.81	0.9	0.84	1.2	1.2		1.9		3.8				
0.1	0.1	µg/L	4,4'-DDD						0.13								
NE	NE	µg/L	Alkalinity, Total as CaCO3	62400	51900	51600	63500	51900	50200		47700						
10	10	µg/L	Arsenic													3.4	
100	700	µg/L	Barium	111	90.8	98.8	115	95.1	100		97.1		104	100		99.3	104
0.05	0.019	µg/L	beta-BHC						0.1								
100	700	µg/L	Carbon Disulfide														12.5
NE	250000	µg/L	Chloride	4300	3600	5160	5340	3810									
10	3000	µg/L	Chloroethane					1.3									
10	10	µg/L	Chromium											0.55			0.65
5	70	µg/L	cis-1,2-Dichloroethene	0.73	0.37	0.54	0.72	0.62	0.5		0.67		0.71				
10	70	µg/L	Cyanide				5										
0.002	0.002	µg/L	Dieldrin					0.11	0.081								
0.075	0.004	µg/L	Heptachlor epoxide					0.12	0.066								
300	300	µg/L	Iron	76.5													
10	15	µg/L	Lead														
5	500	µg/L	m&p-Xylene	1.1			0.96						1.4				
50	50	µg/L	Manganese	22.9	15.5	19.4	24.9	17.4	10.2		12.7						
0.2	1	µg/L	Mercury														
1	5	µg/L	Methylene Chloride	2.9													
NE	NE	µg/L	o-Xylene	0.36			0.27						0.39				
10	20	µg/L	Silver										0.84	0.23		0.56	0.88
NE	NE	µg/L	Sodium	16600	14200	13000	14300	13900	13700		12000						
250000	250000	µg/L	Sulfate	1360				2090									
NS	NS	µg/L	Tetrahydrofuran	8.8	5.2	13.7	24.2	26	18.9								
NE	500000	µg/L	Total Dissolved Solids	138000	126000	116000	108000	111000	109000		124000						
1	2000	µg/L	Trichlorofluoromethane	1.2	0.62	0.47	0.25	0.29			0.34		0.48				
5	500	µg/L	Xylenes (Total)				1.2	0.79									
			MW-8														
100	6000	µg/L	Acetone										3.8				
NE	NE	µg/L	Alkalinity, Total as CaCO3	22800	21300	19700	22800	19500	20100		19600						
10	10	µg/L	Arsenic	2.6													
100	700	µg/L	Barium	38	30.7	25.4	28.5	26.9	27.5		24.4		27.3	26.8		28.8	27.2
NE	250000	µg/L	Chloride	1350	1800	1510	2070	1860									
10	10	µg/L	Chromium										0.96	0.62		1.4	
300	300	µg/L	Iron	529		136	61.5	60.8	57.8		151						
10	15	µg/L	Lead														
50	50	µg/L	Manganese	19.9		6.8					7						
0.2	1	µg/L	Mercury														
10	20	µg/L	Silver										0.1				0.16
NE	NE	µg/L	Sodium	7810	6160	5580	6120	6980	6250		5410						
250000	250000	µg/L	Sulfate				2100										
NE	500000	µg/L	Total Dissolved Solids	64000	50000	61000	51000	58000	52000		81000						
10	1000	µg/L	Zinc					15.2			45.4						

Old Salisbury Road Landfill (C&D)

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
																						150					
									5.1		5					7		5					5				
52.6	56.1	57.5	70.6	58	58	57	54	53	80		76	65	72	65	150	610	270	400	200	200	240	480	820	610	330	620	1000
													2.7														
																						25					
							5.4																				
5.2	5.3	5.6	8.4	6.4	6.2	6.2	3.5	5.6	14		7.3	8.7	9.5	7.4	23	140	49	82	8.1	29	38	96	170	16	70	43	96
											5.1					13	7.6	7.6		8.2	16	29	69	31	14	20	19
							0.4																				0.8
																					10						
0.28	0.78	0.56																									
																16											
											28	25	24	41	180	530	62	41	82	59		160	360	260	300	590	1400
											2.2	2.4		3.2	26	95	4.1	2.6		2.8		12	33	14	21	10	12
															7.6	38			5.8				20	14	14	11	18
																											1.4
												8.6				17	16	45			9.8						
86.9	99	95.7	101	89	76	74	60	53	63		180	820	130	210	84	1300	1300	2600	360	390	960	1300	1200	1800	750	970	1930
																						9					
	0.91	7.3							4.4		26	150	17	32	6.8	270	210	580	2.5	62	190	350	430	410	180	21	28
												24	5.3	6		36	26	65	8.7	12	30	36	38	53	23	6	17
							0.24																	0.2		0.4	1.4
																					10						
0.42	0.96	0.66													2.6												
											6					36	46	89									
25	32.8	24	26.6	30	29	29	26	25	30		480	52	77	48	150	2700	2600	4200									
0.78	0.97	0.42							2.4		28	3.2	3.8	2	23	94	92	240									
											41		6.7			150	210	400									
		0.1					0.26																				
	0.15	0.13	0.16																								

Facility Permit 34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	Nov-14	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09
			MW-9														
NE	NE	µg/L	Alkalinity, Total as CaCO3	18300	18300	18400	21700	17200	20100		17400						
10	10	µg/L	Arsenic	3.5													
100	700	µg/L	Barium	193	168	170	174	142	142		141		153	157		134	128
15	3	µg/L	bis(2-Ethylhexyl)phthalate					13									
NE	250000	µg/L	Chloride	3610	3610	3950	4300	3560									
10	10	µg/L	Chromium														
5	1000	µg/L	Dichlorodifluoromethane			0.28		0.28									
300	300	µg/L	Iron	55.9		136	867										
10	15	µg/L	Lead														
50	50	µg/L	Manganese	7.6		6.9	16.6										
10	20	µg/L	Silver										0.43			0.27	0.32
NE	NE	µg/L	Sodium	14600	12400	13500	12900	13100	12600		11900						
250000	250000	µg/L	Sulfate	2100			3200										
NE	500000	µg/L	Total Dissolved Solids	141000	107000	124000	100000	118000	123000		128000						
1	2000	µg/L	Trichlorofluoromethane	0.96	0.47	0.69	0.36	0.49			0.42		0.26				
10	1000	µg/L	Zinc	5.3													
			MW-10														
100	NE	µg/L	4-Methyl-2-pentanone (MIBK)	2.2													
NE	NE	µg/L	Alkalinity, Total as CaCO3	42200	31400	26700	32100	25500	413000		21700						
100	700	µg/L	Barium	262	132	112	115	101	96.5		91.3		80.7	38.9		46.6	39.1
1	1	µg/L	Benzene	0.44													
1	4000	µg/L	Beryllium	1.4													
100	700	µg/L	Carbon Disulfide														13
NE	250000	µg/L	Chloride	2220	1820	1790	2040	1800									
10	10	µg/L	Chromium										0.63				
5	70	µg/L	cis-1,2-Dichloroethene	0.35													
1	600	µg/L	Ethylbenzene	0.73													
300	300	µg/L	Iron	1160		84.3	92.8	218	55.1		424						
10	15	µg/L	Lead	4.1													
5	500	µg/L	m&p-Xylene	1.1													
50	50	µg/L	Manganese	130	10.9	7.9		5.1			6.8						
0.2	1	µg/L	Mercury	0.33	0.51												
NE	NE	µg/L	o-Xylene	0.65													
10	20	µg/L	Selenium														
10	20	µg/L	Silver										0.12				0.19
NE	NE	µg/L	Sodium	6860				5280									
1000	NE	µg/L	Sulfide	260													
NS	NS	µg/L	Tetrahydrofuran	106	18.6	5											
NE	500000	µg/L	Total Dissolved Solids	86000	63000	66000	46000	63000	49000		89000						
1	2000	µg/L	Trichlorofluoromethane		0.2	0.33	0.38	0.49			0.68		0.52				
10	1000	µg/L	Zinc	6.2													
			MW-11														
0.1	0.1	µg/L	4,4'-DDT						0.05								
NE	NE	µg/L	Alkalinity, Total as CaCO3	143000	175000	161000	189000	153000	120000		122000						
100	700	µg/L	Barium	96.8	94.3	87.8	87	76.8	70.3		57.5		56.2	48.1		37.6	31.8
10	200	µg/L	Benzo(g,h,i)perylene						1.3								
NE	250000	µg/L	Chloride	15000	12400	14000	14200	12900	10800		8480						
10	10	µg/L	Chromium														
10	1000	µg/L	Cobalt	2.6		47.5	65.1										
300	300	µg/L	Iron	35700	33400	32100	30700	29000	26300		23000						
10	15	µg/L	Lead	3.6													
50	50	µg/L	Manganese	2030	1960	1920	1890	1740	1580		1250						
10	20	µg/L	Selenium														
10	20	µg/L	Silver										1.2			0.48	0.5
NE	NE	µg/L	Sodium	10000	8490	9070	8290	8770	7460		6480						
250000	250000	µg/L	Sulfate	12800	10700	10400	11000	10400	9700		7590						
1000	NE	µg/L	Sulfide	130													
NS	NS	µg/L	Tetrahydrofuran						4.4				12.1				
NE	500000	µg/L	Total Dissolved Solids	228000	207000	236000	228000	220000	161000		165000						
25	300	µg/L	Vanadium	3.6													
10	1000	µg/L	Zinc					92									

Old Salisbury Road Landfill (C&D)

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
173	124	124	117	140	140	100	100	85	95	240																	
7.6	0.47									14																	
										14																	
0.18	0.36	0.22	0.32																								
38.9	41.9	42	40.8	52	71	48	46	82	55	98																	
0.65										13																	
										6.8																	
							0.2																				
										6.2																	
28.4	28.6	29.2	23.1	25	24	26	27	24	28	47																	
									3.9	3.3																	
	8.7																										
	0.79	0.41	0.39																								

Facility Permit 34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Value / Row Labels	Nov-14	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09
			MW-12														
NE	NE	µg/L	Alkalinity, Total as CaCO3	40500	45500	39300	29600	40200	37200		40200						
10	10	µg/L	Arsenic													2.7	
100	700	µg/L	Barium	59.2	61.1	47.6	50.1	50.5	46.9		60.1		39.1	44.9		40.6	38
10	200	µg/L	Benzo(g,h,i)perylene						1.2								
NE	250000	µg/L	Chloride	8240	6180	6230	5820	4900	8200		8030						
1	3	µg/L	Chloromethane										0.21				
10	10	µg/L	Chromium										2.6	1.1		2.4	
10	0.05	µg/L	Indeno(1,2,3-cd)pyrene						1.2								
300	300	µg/L	Iron	758	348	253	324	1430	539		3030						
50	50	µg/L	Manganese	199	14.6	86.1	13.2	33.6	15.7		58.3						
50	100	µg/L	Nickel	4.1													
10	20	µg/L	Silver										0.7			0.2	0.39
NE	NE	µg/L	Sodium	12800	11000	10500	11100	11000	11600		9980						
250000	250000	µg/L	Sulfate	32800	48000	27400	51800	24200	20500		15300						
NE	500000	µg/L	Total Dissolved Solids	135000	149000	126000	138000	127000	130000		124000						
1	2000	µg/L	Trichlorofluoromethane		0.32												
10	1000	µg/L	Zinc					30.8									
			MW-13														
5	350	µg/L	1,1-Dichloroethene														19.8
NE	NE	µg/L	Alkalinity, Total as CaCO3	36200	46400	43200	58700	43900	52200		44500						
100	700	µg/L	Barium	130	77.1	106	176	279	144		139		164	176		126	117
10	0.005	µg/L	Benzo(a)pyrene						1.1								
10	0.05	µg/L	Benzo(b)fluoranthene						1								
10	200	µg/L	Benzo(g,h,i)perylene						1.5								
1	4000	µg/L	Beryllium	1.2			2.4	3.5	1.4		2.3						
NE	250000	µg/L	Chloride	5870	3880	5700	3820	6150	5380								
10	10	µg/L	Chromium	3			7.1	11.8			5.5		3.9	4		1.7	0.8
10	1000	µg/L	Cobalt				6.6										
10	1000	µg/L	Copper	3.8			7.6	6.9			6.1						
10	0.005	µg/L	Dibenz(a,h)anthracene						1.2								
10	0.05	µg/L	Indeno(1,2,3-cd)pyrene						1.5								
300	300	µg/L	Iron	2720	232	1330	8610	11300	3760		6140						
10	15	µg/L	Lead	5.4			6.5	7.5			6.4			4.3			
50	50	µg/L	Manganese	55.6	34.1	48.8	158	301	91.5		140						
10	20	µg/L	Silver										0.72			0.4	0.41
NE	NE	µg/L	Sodium	10700	11200	11700	19100	14600	16700		20200						
250000	250000	µg/L	Sulfate	8660	8680	9360	7820	9770	9420		9460						
1000	NE	µg/L	Sulfide	151				106	178								
NS	NS	µg/L	Tetrahydrofuran										18.6				
NE	500000	µg/L	Total Dissolved Solids	119000	113000	114000	87000	144000	110000		159000						
1	2000	µg/L	Trichlorofluoromethane														18.6
25	300	µg/L	Vanadium	7.1			14.6	18.7	7.2		10.8						
10	1000	µg/L	Zinc	13.7	17.2		37.3	51	20		31.6						
			MW-14														
NE	NE	µg/L	Alkalinity, Total as CaCO3	42300	37400	32800	35600	28900	30100		30400						
10	10	µg/L	Arsenic														
100	700	µg/L	Barium	193	163	140	254	160	122		143		125	129		130	242
1	4000	µg/L	Beryllium	0.6													
15	3	µg/L	bis(2-Ethylhexyl)phthalate					9.8									
NE	250000	µg/L	Chloride	3720	3630	4100	4290	4790									
1	3	µg/L	Chloromethane										0.24				
10	10	µg/L	Chromium	4.5			6.6	6					1.8	2.3		3	10.7
10	1000	µg/L	Copper	4.8			9.5	5.8									
10	70	µg/L	Cyanide			6											
300	300	µg/L	Iron	2620	142	915	5820	4520	1140		2050						
10	15	µg/L	Lead														7.2
50	50	µg/L	Manganese	120	40.2	110	240	251	170		71						
0.2	1	µg/L	Mercury														
50	100	µg/L	Nickel	5.3			8.6	13.7	12.5								
10	20	µg/L	Silver										0.74			0.39	0.54
NE	NE	µg/L	Sodium	14400	12800	12300	13500	15000	14300		12700						
NE	500000	µg/L	Total Dissolved Solids	119000	124000	123000	102000	127000	145000		138000						
1	2000	µg/L	Trichlorofluoromethane	0.57	0.34												
25	300	µg/L	Vanadium	5.5			9.9	8									
10	1000	µg/L	Zinc	13.3	11.7		27.4	23			12						

Old Salisbury Road Landfill (C&D)

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Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
34.5	57.9	60.5	47.3	31	66	55	77	50	77	74																	
2		1.8				4			2.1																		
	0.37	0.15	0.26																								
79.2	88.7	64.6	85.6	79	62	65	59	46	57	160																	
1.6	2.2	1.1				2			4.8	9.2																	
										11																	
	0.44	0.21																									
	7.3				8.3																						
97.9	583	186	130	210	460	250	120	69	66	170																	
0.4	40.2	4.1	1.7	6.6	35	15	3.9			3.2																	
	26.2			5.2	23	13	5.9			8																	
			0.098				0.44																				
	0.46	0.56	0.48																								

Facility Permit 34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL SWSL	MCL 2L	units	Row Labels (Value)	Nov-14	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09
			MW-15														
5	350	µg/L	1,1-Dichloroethene						3.1								
0.1	0.1	µg/L	4,4'-DDD					0.062									
NE	NE	µg/L	Alkalinity, Total as CaCO3	54700	96600	64300	78900	77600	75300								
10	10	µg/L	Arsenic					7.1	5.7								
100	700	µg/L	Barium	41.5	8.6	23.8	59.6	143	115								
NE	250000	µg/L	Chloride	146000	83400	124000	124000	143000	60600								
5	70	µg/L	Chloroform		0.49	0.77	0.63	0.49	1.4								
10	10	µg/L	Chromium					6.7	7.2								
10	1000	µg/L	Copper					10.5									
10	70	µg/L	Cyanide			5.2											
300	300	µg/L	Iron	233	292	239	4140	12300	10000								
10	15	µg/L	Lead					9.5	7.6								
50	50	µg/L	Manganese	33	34.7	14	160	317	327								
NE	NE	µg/L	Sodium	24000	24200	25300	26700	21200	16300								
250000	250000	µg/L	Sulfate	43800	59500	53200	41200	35600	25800								
1000	NE	µg/L	Sulfide					100									
NS	NS	µg/L	Tetrahydrofuran	15.5	21.4	14.7	7.4	6.3									
NE	500000	µg/L	Total Dissolved Solids	464000	373000	410000	442000	298000	260000								
1	2000	µg/L	Trichlorofluoromethane	3.9	5.3	7.6	4.3	8.1	7.3								
25	300	µg/L	Vanadium				8.6	28.6	23.4								
10	1000	µg/L	Zinc	5.3		17.1	22.7	45.6	51.1								
			SW-1														
100	6000	µg/L	Acetone								2.2						
NE	NE	µg/L	Alkalinity, Total as CaCO3	63700	45200	72700	58000	79700	47200		19600						
10	10	µg/L	Arsenic	5.9												3.7	
100	700	µg/L	Barium	276	65.8	71.1	58.9	63.3	70.4		42.5		69.9	61.9		92.5	77.7
1	4000	µg/L	Beryllium	1.1													
1	2	µg/L	Cadmium	0.7													
NE	250000	µg/L	Chloride	19500	23700	18100	20600	19700	25300		19100						
10	10	µg/L	Chromium	13													
10	1000	µg/L	Cobalt		9		14.6										
10	1000	µg/L	Copper	16.4													
0.1	2	µg/L	Endrin					0.08									
300	300	µg/L	Iron	155000	8210	22800	6900	25500	11400		2290						
10	15	µg/L	Lead	18.3													17.5
50	50	µg/L	Manganese	1760	749	1530	855	1720	1040		130						
0.2	1	µg/L	Mercury														
50	100	µg/L	Nickel	8.7													
10	20	µg/L	Selenium	7													
10	20	µg/L	Silver										0.4			0.28	0.62
NE	NE	µg/L	Sodium	12500	14500	13000	12400	15500	14300		9390						
250000	250000	µg/L	Sulfate	3130	2820	2190	2700	2090									
NE	500000	µg/L	Total Dissolved Solids	122000	126000	125000	104000	131000	98000		140000						
25	300	µg/L	Vanadium	37													
10	1000	µg/L	Zinc	69.8													
			SW-2														
20	NE	µg/L	3,3'-Dichlorobenzidine						3.6								
10	NE	µg/L	3-Methylcholanthrene						2.9								
100	6000	µg/L	Acetone								4						
NE	NE	µg/L	Alkalinity, Total as CaCO3	2390	41300	48900	48600	44700	44200		26100						
10	10	µg/L	Arsenic	6.2													
100	700	µg/L	Barium	171	59.7	50.1	51.7	46.5	53.4		81		49.2	57.6		59.4	52.1
10	0.05	µg/L	Benzo(a)anthracene						1.1								
10	0.005	µg/L	Benzo(a)pyrene						2.5								
10	0.05	µg/L	Benzo(b)fluoranthene						2.8								
10	200	µg/L	Benzo(g,h,i)perylene						1.8								
10	0.5	µg/L	Benzo(k)fluoranthene						2.5								
1	4000	µg/L	Beryllium	0.64													
15	3	µg/L	bis(2-Ethylhexyl)phthalate						1.1								
NE	250000	µg/L	Chloride	28200	10700	11600	10800	10300	11300		10900						
10	10	µg/L	Chromium	3.2													
10	5	µg/L	Chrysene						1.1								
10	1000	µg/L	Cobalt	4.4													
10	1000	µg/L	Copper	3.2													
10	0.005	µg/L	Dibenz(a,h)anthracene						2.1								
10	0.05	µg/L	Indeno(1,2,3-cd)pyrene						2.2								
300	300	µg/L	Iron	75000	2130	3360	1400	1280	1720		4170						
10	15	µg/L	Lead	7.4													
50	50	µg/L	Manganese	1010	219	152	153	106	157		280						
0.2	1	µg/L	Mercury														0.081
50	100	µg/L	Nickel	3.1													
10	20	µg/L	Selenium														
10	20	µg/L	Silver										0.2			0.2	0.36
NE	NE	µg/L	Sodium	17600	9840	10300	9160	9990	9890		8650						

Old Salisbury Road Landfill (C&D)

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96
			22.7																								
								23		20																	
45.6	78.2	79.7	70.3	88	54	120	73	750	53	500																	
0.61	0.67	1.2	0.61			4.2		52	3.2	36																	
								57		38																	
							1.1																				
	0.39	0.37	0.51																								
			5.5																								
46.3	50.6	50.6	49.4	300	44	150	51	47	65	63																	
0.42				17		4.7																					
				11		7.6																					
				21																							
	0.5	0.26	0.26																								

Facility Permit 34-12

Old Salisbury Road Landfill (C&D)

Historic Detections

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

MCL			Value	Column Labels													
SWSL	2L	units	Row Labels	Nov-14	May-14	Nov-13	May-13	Nov-12	Apr-12	Dec-11	Nov-11	Jun-11	May-11	Nov-10	Apr-10	Mar-10	Sep-09
250000	250000	µg/L	Sulfate	5620	12700	5490	5090	4240	6180		38300						
1000	NE	µg/L	Sulfide	142													
NS	NS	µg/L	Tetrahydrofuran	18.4													
NE	500000	µg/L	Total Dissolved Solids	117000	120000	114000	91000	101000	101000		189000						
25	300	µg/L	Vanadium	11.6							7.5						
10	1000	µg/L	Zinc	28							13.5						
			SW-3														
10	40	µg/L	3&4-Methylphenol(m&p Cresol)			3.6											
0.1	0.1	µg/L	4,4'-DDD					0.079									
0.1	0.1	µg/L	4,4'-DDT						0.09								
NE	NE	µg/L	Alkalinity, Total as CaCO3	389000	259000	516000	293000	317000	221000	160000							
100	700	µg/L	Barium	206	181	348	185	315	179	123							
1	1	µg/L	Benzene	0.54	0.32	0.88		0.34	0.25								
NE	250000	µg/L	Chloride	27000	16900	34800	20000	24300	22800	20900							
10	1000	µg/L	Cobalt	3.4	14.8	14.4	25.3	13	5.5								
0.1	42	µg/L	Endosulfan II					0.071	0.085								
300	300	µg/L	Iron	5270	8890	11700	9560	16500	9370	3230							
50	50	µg/L	Manganese	5080	4320	8930	3990	5200	3760	1890							
50	100	µg/L	Nickel	4.8		12											
NE	NE	µg/L	Sodium	29900	29900	41100	25000	33800	21300	18500							
250000	250000	µg/L	Sulfate	16800	26300	62500	20100	36400	26400	19800							
NS	NS	µg/L	Tetrahydrofuran	10.2	9.7	18.9	5.1	4.8	4.5								
NE	500000	µg/L	Total Dissolved Solids	473000	319000	705000	327000	432000	329000	237000							
25	300	µg/L	Vanadium			9.8											
10	1000	µg/L	Zinc			10.8											
			SW-4														
5	350	µg/L	1,1-Dichloroethene							0.58							
0.1	0.1	µg/L	4,4'-DDD					0.11	0.062								
0.1	0.1	µg/L	4,4'-DDT						0.054								
NE	NE	µg/L	Alkalinity, Total as CaCO3	140000	158000	152000	147000	220000	158000	131000							
100	700	µg/L	Barium	82.8	126	101	106	151	136	105							
NE	250000	µg/L	Chloride	24300	30800	31000	26900	28800	30900	23600							
5	70	µg/L	Chloroform						0.97								
10	1000	µg/L	Cobalt				10.4										
0.1	42	µg/L	Endosulfan II						0.066								
0.1	2	µg/L	Endrin aldehyde						0.061								
300	300	µg/L	Iron	638	2520	1790	4180	1640	2140	1060							
50	50	µg/L	Manganese	739	2250	1080	1650	2430	2420	1290							
NE	NE	µg/L	Sodium	17800	24400	20100	18200	29000	20000	17900							
250000	250000	µg/L	Sulfate	17600	23500	23000	13200	32300	23600	19500							
NS	NS	µg/L	Tetrahydrofuran		4.4												
NE	500000	µg/L	Total Dissolved Solids	222000	257000	270000	255000	349000	272000	234000							
1	2000	µg/L	Trichlorofluoromethane	0.27		0.25			1.4								

Old Salisbury Road Landfill (C&D)

Highlighted cells are at or above the current standard. Blank cells indicate either NS or ND.

Mar-09	Dec-08	Mar-08	Nov-07	Apr-07	Nov-06	Apr-06	Nov-05	Jun-05	Nov-04	Aug-04	May-04	Nov-03	May-03	Dec-02	Apr-02	Nov-01	Jul-01	Dec-00	Jun-00	Nov-99	Jun-99	Nov-98	May-98	Oct-97	May-97	Oct-96	Jan-96

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			November-14								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate	1720	117000	3740	143000	8180		1360	
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic								2.6
100	700	µg/L	Barium	142	339	221	305	58.2		111	38
1	4000	µg/L	Beryllium								
1	2	µg/L	Cadmium								
10	10	µg/L	Chromium		3.4			4.8			
10	1000	µg/L	Cobalt		25	13.3	82				
10	1000	µg/L	Copper		9.6						
300	300	µg/L	Iron	85.8	2580	49700	126	221		76.5	529
10	15	µg/L	Lead			2.7					
50	50	µg/L	Manganese	2.9	9880	9380	1040	2.6		22.9	19.9
50	100	µg/L	Nickel		25.9		7.2				
10	20	µg/L	Selenium								
NE	NE	µg/L	Sodium	10600	58300	2770	55400	13700		16600	7810
25	300	µg/L	Vanadium			2.8	2.7	5.6			
10	1000	µg/L	Zinc		16.8		7.2				
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury								
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.1					1.3	
1	6	µg/L	1,4-Dichlorobenzene		0.4						
100	NE	µg/L	4-Methyl-2-pentanone (MIB								
1	1	µg/L	Benzene		2.5		0.42				
10	3000	µg/L	Chloroethane		2.1						
5	70	µg/L	cis-1,2-Dichloroethene		0.5					0.73	
1	600	µg/L	Ethylbenzene								
5	500	µg/L	m&p-Xylene							1.1	
1	5	µg/L	Methylene Chloride		3.7					2.9	
NE	NE	µg/L	o-Xylene		0.33					0.36	
1	0.7	µg/L	Tetrachloroethene		2						
NS	NS	µg/L	Tetrahydrofuran		79.2		15.9			8.8	
1	3	µg/L	Trichloroethene		0.85						
1	2000	µg/L	Trichlorofluoromethane		2.4					1.2	
1	0.03	µg/L	Vinyl chloride		1.2						
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	37600	453000	177000	286000	24000		62400	22800
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	120000	769000	191000	692000	163000		138000	64000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	7090	49800	2940	50500	15500		4300	1350

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
2100		12800	32800	8660		43800	3130	5620	16800	17600		
3.5							5.9	6.2				
193	262	96.8	59.2	130	193	41.5	276	171	206	82.8		
	1.4			1.2	0.6		1.1	0.64				
							0.7					
				3	4.5		13	3.2				
		2.6						4.4	3.4			
				3.8	4.8		16.4	3.2				
55.9	1160	35700	758	2720	2620	233	155000	75000	5270	638		
	4.1	3.6		5.4			18.3	7.4				
7.6	130	2030	199	55.6	120	33	1760	1010	5080	739		
			4.1		5.3		8.7	3.1	4.8			
							7					
14600	6860	10000	12800	10700	14400	24000	12500	17600	29900	17800		
		3.6		7.1	5.5		37	11.6				
5.3	6.2			13.7	13.3	5.3	69.8	28				
	0.33											
	2.2											
	0.44								0.54			
	0.35											
	0.73											
	1.1											
	0.65											
	106					15.5		18.4	10.2			
0.96					0.57	3.9				0.27		
18300	42200	143000	40500	36200	42300	54700	63700	2390	389000	140000		
141000	86000	228000	135000	119000	119000	464000	122000	117000	473000	222000		
3610	2220	15000	8240	5870	3720	146000	19500	28200	27000	24300		

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide	4.4	4.2	10.4	4.3	5.1			
			SM 4500-S2D								
			µg/L								
1000	NE	µg/L	Sulfide								
			Field								
			feet								
			Static Water Level	69.7	17.18	21.87	18.4	22.36		36.9	37.58
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	1	0.5	6.3	0.5	5		0.5	2.3
			NTU								
			Turbidity	1.7	3.53	5.2	10	3.6		1.2	9.1
			Std. Units								
			Field pH	5.6	6.1	6	5.9	6		5.6	5.7
			mV								
			REDOX	194	38	13	158	198		184	224
			µmhos/cm								
			Field Specific Conductance	138	1150	363	971	184		186	59
			°C								
			Field Temperature	14.8	13.2	13.2	13.7	12.9		13.7	13
			May-14								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		136000	4230	85200	8060			
			EPA 6010								
			µg/L								
6	1000	µg/L	Antimony		5.4						
10	10	µg/L	Arsenic			8.9					
100	700	µg/L	Barium	124	324	205	264	54.4		90.8	30.7
10	10	µg/L	Chromium					5.6			
10	1000	µg/L	Cobalt		22.8		46.6				
300	300	µg/L	Iron	52.9	1650	38200		123			
50	50	µg/L	Manganese		7950	9260	641	6.1		15.5	
50	100	µg/L	Nickel		20.6						
10	20	µg/L	Selenium		16.5		11.5				
NE	NE	µg/L	Sodium	10800	59700		39700	13600		14200	6160
10	1000	µg/L	Zinc					11.4			
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury								
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		0.83					0.81	
1	1	µg/L	Benzene		1.8		0.28				
5	70	µg/L	Chloroform								
5	70	µg/L	cis-1,2-Dichloroethene		0.38					0.37	
1	5	µg/L	Methylene Chloride		3.7						
NE	NE	µg/L	o-Xylene		0.31						

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
	260	130		151				142				
104.74	24.68	5.4	10.76	18.48	103.8	79						
60	21	20	15.58	20	60	50.85						
8.3		0.5	0.5	0.5	3.8	1.25	0.5	2.11	4.5	8.18		
2	98	9.9	5.2	152	7.8	20.1	363.9	136.9	16.6	28.3		
5.5	5.1	5.9	5.9	5.6	5.6	6.2	6.1	6.3	6.6	6.7		
252	198	-61	101	232	242	182	7	-36	-45	27		
161	106	440	203	120	159	647	247	324	885	344		
12.4	15.3	15.4	15.4	13.8	11.9	16.7	10.8	11.2	12.5	10		
		10700	48000	8680		59500	2820	12700	26300	23500		
168	132	94.3	61.1	77.1	163	8.6	65.8	59.7	181	126		
							9		14.8			
		33400	348	232	142	292	8210	2130	8890	2520		
	10.9	1960	14.6	34.1	40.2	34.7	749	219	4320	2250		
12400		8490	11000	11200	12800	24200	14500	9840	29900	24400		
				17.2	11.7							
	0.51											
									0.32			
						0.49						
											1.1	

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
1	0.7	µg/L	Tetrachloroethene		1.8						
NS	NS	µg/L	Tetrahydrofuran		72.6		11.8			5.2	
1	3	µg/L	Trichloroethene		0.71						
1	2000	µg/L	Trichlorofluoromethane		3.7					0.62	
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	30000	344000	155000	222000	31900		51900	21300
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	91000	549000	187000	445000	167000		126000	50000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5600	50500	3260	29700	13900		3600	1800
			Field								
			feet								
			Static Water Level	70.78	14.24	37.86	14.47	20.22		74.12	26.82
			Total Well Depth	60	21	27	20	30		37.05	27
			mg/L								
			Oxygen, Dissolved	5.3	4.8	6.3	6.2	8.6		3.8	8.4
			NTU								
			Turbidity	3	11	6	17	10		6	8
			Std. Units								
			Field pH	5.6	5.8	6	5.7	5.7		5.3	5
			mV								
			REDOX	411	243	146	374	389		363	389
			µmhos/cm								
			Field Specific Conductance	137	1040	367	715	194		171	64
			°C								
			Field Temperature	18.4	19.6	18.7	14.8	14.7		17.2	16
			November-13								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		128000	3400	113000	8310			
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	106	311	201	296	53.9		98.8	25.4
10	1000	µg/L	Cobalt		19.2	53.5	49.4				
300	300	µg/L	Iron		766	31300	89.5				136
50	50	µg/L	Manganese		8710	9990	688			19.4	6.8
50	100	µg/L	Nickel		27.1		5.3				
NE	NE	µg/L	Sodium	9940	46200		42600	13800		13000	5580
25	300	µg/L	Vanadium		5.5						
10	1000	µg/L	Zinc		12.2						
			EPA 8151								
			µg/L								
2	50	µg/L	2,4,5-TP (Silvex)		0.23						
2	70	µg/L	2,4-D		1.1						

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
	18.6					21.4			9.7	4.4		
0.47	0.2		0.32		0.34	5.3						
18300	31400	175000	45500	46400	37400	96600	45200	41300	259000	158000		
107000	63000	207000	149000	113000	124000	373000	126000	120000	319000	257000		
3610	1820	12400	6180	3880	3630	83400	23700	10700	16900	30800		
52.72	11.34	8.55	9.77	17.91	103.61	76.95						
60	21	20	15.58	20	60	50.85						
8.7	8.3	7.5	8.4	6.8	8.1	5.4	5.5	7.3	2.9	7		
5	4	22	15	147	118	50	51	23	14	33		
5.2	5	6	5.9	5.6	5.5	6.3	6.4	6.8	6.5	6.8		
436	436	27	315	367	437	406	284	252	127	262		
155	86	430	243	149	156	623	205	183	649	478		
17.7	15	14.4	15	16.6	17.7	17.8	21.2	19.7	18.9	19.3		
		10400	27400	9360		53200	2190	5490	62500	23000		
170	112	87.8	47.6	106	140	23.8	71.1	50.1	348	101		
		47.5							14.4			
136	84.3	32100	253	1330	915	239	22800	3360	11700	1790		
6.9	7.9	1920	86.1	48.8	110	14	1530	152	8930	1080		
									12			
13500		9070	10500	11700	12300	25300	13000	10300	41100	20100		
									9.8			
						17.1			10.8			

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.3					0.9	
1	1	µg/L	Benzene		1.9		0.27				
5	70	µg/L	Chloroform								
5	70	µg/L	cis-1,2-Dichloroethene		0.41					0.54	
5	1000	µg/L	Dichlorodifluoromethane								
1	5	µg/L	Methylene Chloride		3						
10	6	µg/L	Naphthalene		0.86						
NE	NE	µg/L	o-Xylene		0.54						
1	0.7	µg/L	Tetrachloroethene		2.2						
NS	NS	µg/L	Tetrahydrofuran		99.6		11.7			13.7	
1	3	µg/L	Trichloroethene		0.89						
1	2000	µg/L	Trichlorofluoromethane		12					0.47	
1	0.03	µg/L	Vinyl chloride		0.95						
			EPA 8270								
			µg/L								
10	40	µg/L	3&4-Methylphenol(m&p Cre								
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	28100	349000	155000	224000	31700		51600	19700
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	103000	654000	193000	496000	154000		116000	61000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5880	56700	3620	36500	15200		5160	1510
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide			7.1	5.9				
			Field								
			feet								
			Static Water Level	71.87	16.65	45.08	18.63	22.73		76.44	36.08
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	8.7	0.9	0.7	7.5	5.6		0.5	10.2
			NTU								
			Turbidity	1	3	1	12	3		2	5
			Std. Units								
			Field pH	5.6	5.6	5.9	5.8	5.9		5.5	5.4
			mV								
			REDOX	228	68	-8	207	239		200	357
			µmhos/cm								
			Field Specific Conductance	104	840	316	678	168		144	48
			°C								
			Field Temperature	18.3	13.8	15.9	17.2	17.4		16.5	15.1

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
									0.88			
						0.77						
0.28												
	5					14.7			18.9			
0.69	0.33					7.6				0.25		
									3.6			
18400	26700	161000	39300	43200	32800	64300	72700	48900	516000	152000		
124000	66000	236000	126000	114000	123000	410000	125000	114000	705000	270000		
3950	1790	14000	6230	5700	4100	124000	18100	11600	34800	31000		
					6	5.2						
106.03	24.77	9.1	10.56	18.83	104.66	79.28						
60	21	20	15.58	20	60	50.85						
9.2	2.2	0.5	6.5	1.3	6.5	2.8	3	4	2.5	4.3		
11	4	8	9	123	250	21	35	2	57	4		
5.2	5.2	5.9	5.8	5.4	5.4	6.2	6.2	6.7	6.2	6.8		
363	327	-66	189	280	355	241	-31	-12	-15	61		
138	63	385	153	115	123	614	246	134	899	369		
16.3	16.7	16.7	17.1	14.8	16.7	17	13.7	12.7	15.1	12.8		

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			May-13								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		115000	5070	97600	11200			2100
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	109	324	216	375	57.7		115	28.5
1	4000	µg/L	Beryllium								
10	10	µg/L	Chromium								
10	1000	µg/L	Cobalt		18.2	64.1	35.3				
10	1000	µg/L	Copper								
300	300	µg/L	Iron		877	34100	158	126			61.5
10	15	µg/L	Lead								
50	50	µg/L	Manganese		7880	9630	496			24.9	
50	100	µg/L	Nickel		20.7						
NE	NE	µg/L	Sodium	9080	45700		42600	13000		14300	6120
100	2000000	µg/L	Tin			5.8					
25	300	µg/L	Vanadium								
10	1000	µg/L	Zinc		21.1	10.5	13.6				
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.2					0.84	
50	NE	µg/L	2-Hexanone		0.48						
100	6000	µg/L	Acetone		20.3						
1	1	µg/L	Benzene		1.4						
5	70	µg/L	Chloroform								
5	70	µg/L	cis-1,2-Dichloroethene		0.26					0.72	
5	500	µg/L	m&p-Xylene							0.96	
1	5	µg/L	Methylene Chloride		4.2						
10	6	µg/L	Naphthalene		1.3						
NE	NE	µg/L	o-Xylene		0.54					0.27	
1	0.7	µg/L	Tetrachloroethene		1.5						
NS	NS	µg/L	Tetrahydrofuran		111		8.5			24.2	
1	3	µg/L	Trichloroethene		0.68						
1	2000	µg/L	Trichlorofluoromethane		12.1					0.25	
5	500	µg/L	Xylenes (Total)							1.2	
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	29800	363000	175000	203000	34800		63500	22800
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	84000	589000	175000	413000	131000		108000	51000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5910	50000	3860	33700	16200		5340	2070
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide			8.1				5	

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
3200		11000	51800	7820		41200	2700	5090	20100	13200		
174	115	87	50.1	176	254	59.6	58.9	51.7	185	106		
				2.4								
				7.1	6.6							
		65.1		6.6			14.6		25.3	10.4		
				7.6	9.5							
867	92.8	30700	324	8610	5820	4140	6900	1400	9560	4180		
				6.5								
16.6		1890	13.2	158	240	160	855	153	3990	1650		
					8.6							
12900		8290	11100	19100	13500	26700	12400	9160	25000	18200		
				14.6	9.9	8.6						
				37.3	27.4	22.7						
						0.63						
						7.4			5.1			
0.36	0.38					4.3						
21700	32100	189000	29600	58700	35600	78900	58000	48600	293000	147000		
100000	46000	228000	138000	87000	102000	442000	104000	91000	327000	255000		
4300	2040	14200	5820	3820	4290	124000	20600	10800	20000	26900		

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			Field								
			feet								
			Static Water Level	73	15.54	21.94	17.53	21.44		38.62	31.43
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	8.3	1.9	6	2.7	7.1		0.9	7.2
			NTU								
			Turbidity	1	1	1	36	1		1	1
			Std. Units								
			Field pH	5.6	5.8	5.8	5.6	6		5.3	5.5
			mV								
			REDOX	263	10	21	246	274		211	260
			µmhos/cm								
			Field Specific Conductance	68	802	217	382	116		106	31
			°C								
			Field Temperature	20.9	19.7	15.7	15.6	15.2		16.3	17.5
			November-12								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		79500	5420	73600	8400		2090	
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	91.7	335	173	400	53.4		95.1	26.9
1	4000	µg/L	Beryllium								
10	10	µg/L	Chromium								
10	1000	µg/L	Cobalt		15.2		35.5				
10	1000	µg/L	Copper								
300	300	µg/L	Iron		1730	25300	344	102			60.8
10	15	µg/L	Lead								
50	50	µg/L	Manganese		8400	11600	541			17.4	
50	100	µg/L	Nickel		21.8						
NE	NE	µg/L	Sodium	9180	43400		43600	14500		13900	6980
25	300	µg/L	Vanadium								
10	1000	µg/L	Zinc		24.5						15.2
			EPA 8081								
			µg/L								
0.1	0.1	µg/L	4,4'-DDD								
0.002	0.002	µg/L	Dieldrin							0.11	
0.1	42	µg/L	Endosulfan II				0.12				
0.1	2	µg/L	Endrin		0.27						
0.1	2	µg/L	Endrin aldehyde		0.23						
0.075	0.004	µg/L	Heptachlor epoxide							0.12	

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
106.24	23.65	8.13	9.59	17.62	104.48	78.61						
60	21	20	15.58	20	60	50.85						
7.4	3.1	6.4	9.3	1.3	6.4	2.5	5	9.5	1.9	5.8		
44	1	6	5	587	446	190	45	11	13	15		
5	5.2	6.2	5.8	5.6	5.5	6.1	6.4	7	6.3	6.9		
282	267	-22	185	204	254	224	-13	-10	-53	-31		
88	43	400	197	136	81	403	208	144	575	367		
18.1	16.3	14.7	14.7	16.5	18.2	17.9	22.4	23	22.4	23.3		
		10400	24200	9770		35600	2090	4240	36400	32300		
						7.1						
142	101	76.8	50.5	279	160	143	63.3	46.5	315	151		
				3.5								
				11.8	6	6.7						
									13			
				6.9	5.8	10.5						
	218	29000	1430	11300	4520	12300	25500	1280	16500	1640		
				7.5		9.5						
	5.1	1740	33.6	301	251	317	1720	106	5200	2430		
					13.7							
13100	5280	8770	11000	14600	15000	21200	15500	9990	33800	29000		
				18.7	8	28.6						
		92	30.8	51	23	45.6						
						0.062			0.079	0.11		
									0.071			
							0.08					

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.2					1.2	
1	1	µg/L	Benzene		1.3						
10	3000	µg/L	Chloroethane							1.3	
5	70	µg/L	Chloroform		0.16						
5	70	µg/L	cis-1,2-Dichloroethene		0.25					0.62	
5	1000	µg/L	Dichlorodifluoromethane								
1	5	µg/L	Methylene Chloride		4.5						
10	6	µg/L	Naphthalene		1.6						
NE	NE	µg/L	o-Xylene		0.63						
1	0.7	µg/L	Tetrachloroethene		1.8						
NS	NS	µg/L	Tetrahydrofuran		93.2		13.5			26	
1	3	µg/L	Trichloroethene		0.77						
1	2000	µg/L	Trichlorofluoromethane		16.9					0.29	
5	500	µg/L	Xylenes (Total)		0.98					0.79	
			EPA 8270								
			µg/L								
10	0.05	µg/L	Benzo(a)anthracene	1.4							
15	3	µg/L	bis(2-Ethylhexyl)phthalate	2.4	1.1			1			
10	5	µg/L	Chrysene	1.5							
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	26300	277000	142000	174000	31200		51900	19500
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	95000	564000	172000	435000	157000		111000	58000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5320	64000	3920	34500	16100		3810	1860
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide			9.1					
			SM 4500-S2D								
			µg/L								
1000	NE	µg/L	Sulfide								
			Field								
			feet								
			Static Water Level	72.24	17.78	45.36	19.26	22.81		77.49	37.56
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	5.5	1.5	1.2	2.3	6.4		1.8	9.8
			NTU								
			Turbidity	1	1	25	14	14		7	1
			Std. Units								
			Field pH	5.7	5.8	5.6	5.7	5.8		5.4	5.7
			mV								
			REDOX	236	77	16	181	245		197	260
			µmhos/cm								
			Field Specific Conductance	100	842	283	655	175		147	49

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
									0.34			
						0.49						
0.28												
						6.3			4.8			
0.49	0.49					8.1						
13					9.8							
17200	25500	153000	40200	43900	28900	77600	79700	44700	317000	220000		
118000	63000	220000	127000	144000	127000	298000	131000	101000	432000	349000		
3560	1800	12900	4900	6150	4790	143000	19700	10300	24300	28800		
				106		100						
105.53	25.13	8.94	10.71	18.71	104.68	79.91						
60	21	20	15.58	20	60	50.85						
7.3	4.4	0.9	3	2.3	6.4	2.3	8.7	6.7	2.1	6.7		
1	1	25	1	605	329	456	3	1	14	92		
5.5	5	6.1	5.9	5.5	5.5	6.5	6.1	6.7	6.2	6.8		
352	366	-61	150	246	365	160	-21	-21	-26	83		
134	63	354	158	136	137	434	261	135	700	523		

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			°C								
			Field Temperature	16	14	15.2	13.3	15.9		14.5	15.6
			April-12								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		95000	6860	98700	7910			
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	93.8	366	228	407	57.5		100	27.5
1	4000	µg/L	Beryllium								
10	10	µg/L	Chromium					5.2			
10	1000	µg/L	Cobalt		14.8	16.4	21.5				
300	300	µg/L	Iron		3190	41500	145	209			57.8
10	15	µg/L	Lead								
50	50	µg/L	Manganese		8280	9310	370			10.2	
50	100	µg/L	Nickel		22.3						
10	20	µg/L	Silver		5.2						
NE	NE	µg/L	Sodium	9440	38400		40400	14200		13700	6250
25	300	µg/L	Vanadium								
10	1000	µg/L	Zinc		35.2						
			EPA 8081								
			µg/L								
0.1	0.1	µg/L	4,4'-DDD							0.13	
0.1	0.1	µg/L	4,4'-DDT		0.54		0.14				
0.05	2	µg/L	Aldrin		0.12						
0.05	0.006	µg/L	alpha-BHC		0.12						
0.05	0.019	µg/L	beta-BHC							0.1	
0.05	0.019	µg/L	delta-BHC		0.18		0.069				
0.002	0.002	µg/L	Dieldrin							0.081	
0.1	42	µg/L	Endosulfan II								
0.1	2	µg/L	Endrin aldehyde		0.28						
0.05	0.008	µg/L	Heptachlor		0.48						
0.075	0.004	µg/L	Heptachlor epoxide							0.066	
1	40	µg/L	Methoxychlor		0.83						
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.1					1.2	
5	350	µg/L	1,1-Dichloroethene		36.6						
1	1	µg/L	Benzene		1.5						
5	70	µg/L	Chloroform								
5	70	µg/L	cis-1,2-Dichloroethene		0.33					0.5	
1	5	µg/L	Methylene Chloride		3.2						
10	6	µg/L	Naphthalene		1.9						
NE	NE	µg/L	o-Xylene		1						
1	0.7	µg/L	Tetrachloroethene		1.7						
NS	NS	µg/L	Tetrahydrofuran		152		8.8			18.9	
1	3	µg/L	Trichloroethene		0.82						
1	2000	µg/L	Trichlorofluoromethane		20.9						
5	500	µg/L	Xylenes (Total)		1.6						

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
16	16.3	16	16.1	15.8	15.8	15.5	14.7	12.7	10	12.4		
		9700	20500	9420		25800		6180	26400	23600		
						5.7						
142	96.5	70.3	46.9	144	122	115	70.4	53.4	179	136		
				1.4								
						7.2						
									5.5			
	55.1	26300	539	3760	1140	10000	11400	1720	9370	2140		
						7.6						
		1580	15.7	91.5	170	327	1040	157	3760	2420		
					12.5							
12600		7460	11600	16700	14300	16300	14300	9890	21300	20000		
				7.2		23.4						
				20		51.1						
										0.062		
		0.05							0.09	0.054		
									0.085	0.066		
										0.061		
						3.1						
									0.25			
						1.4				0.97		
		4.4							4.5			
						7.3				1.4		

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)

Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			EPA 8270								
			µg/L								
20	NE	µg/L	3,3'-Dichlorobenzidine								
10	NE	µg/L	3-Methylcholanthrene								
10	0.05	µg/L	Benzo(a)anthracene								
10	0.005	µg/L	Benzo(a)pyrene								
10	0.05	µg/L	Benzo(b)fluoranthene								
10	200	µg/L	Benzo(g,h,i)perylene								
10	0.5	µg/L	Benzo(k)fluoranthene								
15	3	µg/L	bis(2-Ethylhexyl)phthalate			5.5					
10	5	µg/L	Chrysene								
10	0.005	µg/L	Dibenz(a,h)anthracene								
10	0.05	µg/L	Indeno(1,2,3-cd)pyrene								
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	27100	196000	150000	64300	134000		50200	20100
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	93000	531000	168000	374000	149000		109000	52000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride	5350	61500		33200	16100			
			SM 4500-CN-E								
			µg/L								
10	70	µg/L	Cyanide			6.5					
			SM 4500-S2D								
			µg/L								
1000	NE	µg/L	Sulfide								
			Field								
			feet								
			Static Water Level	36.43	7.99	21.01	8.24	10.55		38.23	15.03
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	5	2.9	0.8	0.7	8.7		0.8	6.7
			NTU								
			Turbidity	1	4	3	7	2		1	7
			Std. Units								
			Field pH	5.2	5.8	5.8	5.5	5.4		5.5	5.5
			mV								
			REDOX	166	43	-24	156	189		185	176
			µmhos/cm								
			Field Specific Conductance	102	809	329	568	182		149	52
			°C								
			Field Temperature	16.7	15.2	13.8	13	13.9		14.7	14.4

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
								3.6				
								2.9				
								1.1				
				1.1				2.5				
				1				2.8				
		1.3	1.2	1.5				1.8				
								2.5				
								1.1				
								1.1				
				1.2				2.1				
			1.2	1.5				2.2				
20100	413000	120000	37200	52200	30100	75300	47200	44200	221000	158000		
123000	49000	161000	130000	110000	145000	260000	98000	101000	329000	272000		
		10800	8200	5380		60600	25300	11300	22800	30900		
				178								
52.4	11.92	4.13	5.04	8.92	52.03	39.39						
60	21	20	15.58	20	60	50.85						
7.2	4.8	0.5	5.4	1.6	6.9	2.5	7.1	8.5	4.1	7.7		
2	2	14	8	150	32	112	21	16	12	10		
5.2	5.2	5.5	6.1	5.9	5.8	6.4	6.5	7.1	6.4	6.5		
180	196	-78	166	189	177	121	-6	-36	-62	-23		
140	66	325	176	144	150	404	194	142	570	454		
16	14.5	14.2	15.1	15	16.4	16.7	19.9	18	18.5	18.9		

Summary of Detected Constituents

Facility Permit	34-12
Qualifier	(Multiple Items)

Old Salisbury Road Landfill (C&D)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			December-11								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate				61800	7020			
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	82.6			328	85.2			
10	10	µg/L	Chromium					14.7			
10	1000	µg/L	Cobalt				15				
300	300	µg/L	Iron				368	3540			
50	50	µg/L	Manganese				257	43.5			
NE	NE	µg/L	Sodium	7670			35300	13300			
25	300	µg/L	Vanadium					13			
10	1000	µg/L	Zinc					15.3			
			EPA 8260								
			µg/L								
5	350	µg/L	1,1-Dichloroethene								
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	27500			143000	32800			
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	95000			345000	139000			
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride				29200	16400			
			Field								
			feet								
			Static Water Level	36.8			9.33	11.2			
			Total Well Depth	60			20	30			
			mg/L								
			Oxygen, Dissolved	5.4			2.3	6.2			
			NTU								
			Turbidity	2			40	90			
			Std. Units								
			Field pH	5.8			5.9	5.7			
			mV								
			REDOX	218			175	200			
			µmhos/cm								
			Field Specific Conductance	97			490	177			
			°C								
			Field Temperature	15.4			12.5	15.2			
			November-11								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate		96300						
			EPA 6010								
			µg/L								
100	700	µg/L	Barium		351	237				97.1	24.4
1	4000	µg/L	Beryllium								

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
									19800	19500		
									123	105		
									3230	1060		
									1890	1290		
									18500	17900		
										0.58		
									160000	131000		
									237000	234000		
									20900	23600		
									5.1	8.3		
									14	7		
									6.4	6.7		
									-1	66		
									415	370		
									11.4	11.5		
		7590	15300	9460				38300				
141	91.3	57.5	60.1	139	143		42.5	81				
				2.3								

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
10	10	µg/L	Chromium								
10	1000	µg/L	Cobalt		11.8						
10	1000	µg/L	Copper								
300	300	µg/L	Iron		2980	40300					151
10	15	µg/L	Lead								
50	50	µg/L	Manganese		7920	7310				12.7	7
50	100	µg/L	Nickel		20.9						
10	20	µg/L	Silver		5						
NE	NE	µg/L	Sodium		31800					12000	5410
25	300	µg/L	Vanadium								
10	1000	µg/L	Zinc		33.3						45.4
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		1.2					1.9	
5	350	µg/L	1,1-Dichloroethene		38.7						
100	6000	µg/L	Acetone		3.7						
1	1	µg/L	Benzene		2						
5	70	µg/L	Chloroform		0.26						
5	70	µg/L	cis-1,2-Dichloroethene		0.46					0.67	
5	500	µg/L	m&p-Xylene		0.66						
1	5	µg/L	Methylene Chloride		3.5						
NE	NE	µg/L	o-Xylene		1.2						
1	0.7	µg/L	Tetrachloroethene		1.8						
NS	NS	µg/L	Tetrahydrofuran		197						
1	3	µg/L	Trichloroethene		0.88						
1	2000	µg/L	Trichlorofluoromethane		20.1					0.34	
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3		219000	155000				47700	19600
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids		498000	180000				124000	81000
			SM 4500-Cl-E								
			µg/L								
NE	250000	µg/L	Chloride		62400						
			Field								
			feet								
			Static Water Level	36.52	16.58	44.06	9.04	11.1		77.6	17.03
			Total Well Depth		21	27				48	27
			mg/L								
			Oxygen, Dissolved		1.7	3.1				4	5.8
			NTU								
			Turbidity		1	4				3	4
			Std. Units								
			Field pH		5.9	6				5.8	5.6
			mV								
			REDOX		95	71				207	206
			µmhos/cm								
			Field Specific Conductance		762	306				158	48

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
				5.5								
				6.1								
	424	23000	3030	6140	2050		2290	4170				
				6.4								
	6.8	1250	58.3	140	71		130	280				
11900		6480	9980	20200	12700		9390	8650				
				10.8				7.5				
				31.6	12			13.5				
							2.2	4			6.6	5.5
												3.2
0.42	0.68											
17400	21700	122000	40200	44500	30400		19600	26100				
128000	89000	165000	124000	159000	138000		140000	189000				
		8480	8030				19100	10900				
52.19	12.24	7.38	9.19	17.83	52.08							
60	21	20	15.58	20	60							
6.8	4.5	0.6	2	6.9	6.2		7.7	7.3				
1	2	37	54	223	154		36	103				
5.6	5.6	6.3	6	5.9	5.8		6.4	6.6				
205	223	-148	216	239	218		112	88				
141	58	289	155	127	139		116	177				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			°C								
			Field Temperature		12.7	13.8				12.3	15.2
			June-11								
			EPA 350.1								
			µg/L								
NS	NS	µg/L	Nitrogen, Ammonia		0.12						
			EPA 6010								
			µg/L								
NE	NE	µg/L	Sodium		27200						
			EPA 8260								
			µg/L								
1	1	µg/L	Benzene		1.6						
1	0.7	µg/L	Tetrachloroethene		1.6						
NS	NS	µg/L	Tetrahydrofuran		274						
			RSK 175								
			µg/L								
NS	NS	µg/L	Methane		1280						
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3		165000						
			SM 4500-Cl-E								
			mg/L								
NE	250000	µg/L	Chloride		39.9						
			Field								
			feet								
			Static Water Level		8.31						
			Total Well Depth		21						
			mg/L								
			Oxygen, Dissolved		4.2						
			NTU								
			Turbidity		3						
			Std. Units								
			Field pH		5.8						
			mV								
			REDOX		88						
			µmhos/cm								
			Field Specific Conductance		698						
			°C								
			Field Temperature		19.1						
			May-11								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	84.7	273	301	126	63.7		104	27.3
10	10	µg/L	Chromium	1.4	5.4		1.3	7.6			0.96
10	20	µg/L	Silver	0.51	2.5	0.6	0.88	0.57		0.84	0.1
			EPA 8260								
			µg/L								
1	200	µg/L	1,1,1-Trichloroethane							0.82	
5	6	µg/L	1,1-Dichloroethane		1.1					3.8	
100	6000	µg/L	Acetone								3.8

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
14.9	14.2	13.5	13	13.3	14.3		10.9	11.5				
153	80.7	56.2	39.1	164	125		69.9	49.2				
	0.63		2.6	3.9	1.8							
0.43	0.12	1.2	0.7	0.72	0.74		0.4	0.2				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
1	1	µg/L	Benzene		1.3						
5	70	µg/L	Chloroform		0.36						
1	3	µg/L	Chloromethane				0.15				
5	70	µg/L	cis-1,2-Dichloroethene		0.26					0.71	
5	500	µg/L	m&p-Xylene		0.74					1.4	
1	5	µg/L	Methylene Chloride		4.1						
NE	NE	µg/L	o-Xylene		0.84					0.39	
1	0.7	µg/L	Tetrachloroethene		1.4						
NS	NS	µg/L	Tetrahydrofuran		226						
1	3	µg/L	Trichloroethene		0.65						
1	2000	µg/L	Trichlorofluoromethane		31.6					0.48	
			Field								
			feet								
			Static Water Level	35.93	8.17	20.56	8.34	10.44		37.99	15.08
			Total Well Depth	60	21	27	20	19.56		48	27
			mg/L								
			Oxygen, Dissolved	6.3	3.9	6.3	5.3	9		3.2	8.7
			NTU								
			Turbidity	55	57	70	96	85		40	18
			Std. Units								
			Field pH	5.8	5.9	6.2	5.7	6.1		5.6	5.1
			mV								
			REDOX	263	71	-43	271	141		245	272
			µmhos/cm								
			Field Specific Conductance	110	687	409	174	208		193	10
			°C								
			Field Temperature	17	16	14.6	14.3	15.5		16.2	16.6
			November-10								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	85.4	223	302	335	53		100	26.8
10	10	µg/L	Chromium	0.96	0.49		0.68	5.8		0.55	0.62
10	15	µg/L	Lead								
10	20	µg/L	Silver		0.85		1.3	0.16		0.23	
			EPA 8260								
			µg/L								
1	5	µg/L	Methylene Chloride		4.2						
1	2000	µg/L	Trichlorofluoromethane		36.1						
			Field								
			feet								
			Static Water Level	35.62	8.39	19.97	8.49	10.5		37.48	16.12
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	6.8	4.3	4.8	3.6	8.1		4	7.9
			NTU								
			Turbidity	3	6	99	40	3		1.5	1
			Std. Units								
			Field pH	5.13	5.05	5.22	6.16	5.13		5.81	5.56
			mV								
			REDOX	282	99	-14	260	212		261	329

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
			0.21		0.24							
		12.1		18.6								
0.26	0.52											
51.11	11.72	4	4.91	8.85	51.45							
60	21	20	15.58	20	60							
7.3	7.1	4.3	7.4	5.2	7.8		6.6	9.1				
1	4	23	25	177	39		50	52				
5.6	5.5	6.2	6	5.6	5.5		6.4	6.5				
265	279	-36	188	245	272		-15	23				
153	55	321	179	171	140		295	129				
18.7	16.6	15.6	15	15	17.1		19.7	18.6				
157	38.9	48.1	44.9	176	129		61.9	57.6				
			1.1	4	2.3							
				4.3								
50.02	12.04	4.03	4.97	9.04	51							
60	21	20	15.58	20	60							
7.8	7.8	5.1	4.9	5.2	7.7		6.7	8.8				
1	0.5	80	7	200	24		7	8				
5.38	5.31	5.91	5.82	5.45	5.42		6.37	6.09				
334	329	-27	183	251	335		9	60				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			µmhos/cm								
			Field Specific Conductance	109	543	369	562	204		191	60
			°C								
			Field Temperature	16.8	16.3	15.9	16.4	16.2		15.1	17.5
			April-10								
			EPA 8260								
			µg/L								
1	2000	µg/L	Trichlorofluoromethane		21.9						
			Field								
			feet								
			Static Water Level		7.15						
			Total Well Depth		21						
			mg/L								
			Oxygen, Dissolved		2.7						
			NTU								
			Turbidity		2						
			Std. Units								
			Field pH		5.46						
			mV								
			REDOX		-7						
			µmhos/cm								
			Field Specific Conductance		255						
			°C								
			Field Temperature		14.3						
			March-10								
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic			4		4.2		3.4	
100	700	µg/L	Barium	85.3	103	314	55.9	54.3		99.3	28.8
1	2	µg/L	Cadmium			0.82					
10	10	µg/L	Chromium	1.4	1.2		1.3	5			1.4
10	20	µg/L	Silver	0.29	0.67	0.45		0.46		0.56	
			EPA 8260								
			µg/L								
1	2000	µg/L	Trichlorofluoromethane		22.2						
			Field								
			feet								
			Static Water Level	36.62	7.16	18.22	8.22	9.99		38.71	13.23
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	5.9	4.8	3.7	4.4	6.1		2.2	7.2
			NTU								
			Turbidity	2	4	6	45	3		2	7
			Std. Units								
			Field pH	5.74	5.31	5.61	5.56	5.96		5.55	5.21
			mV								
			REDOX	262	191	31	262	260		213	303
			µmhos/cm								
			Field Specific Conductance	90	230	330	90	170		160	60

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
193	42	267	183	168	167		307	183				
16.2	18.5	17	18.1	17.2	17.2		14	13.4				
			2.7				3.7					
134	46.6	37.6	40.6	126	130		92.5	59.4				
			2.4	1.7	3							
0.27		0.48	0.2	0.4	0.39		0.28	0.2				
51.31	11.18	3.55	4.15	8.05	51.21							
60	21	20	15.58	20	60							
8.5	7.4	1.9	6.8	5.4	7.9		6.8	8.8				
6	2	13	31	11	29		8	13				
5.32	5.18	5.97	5.73	5.5	5.35		7.05	6.77				
309	300	-60	197	237	292		53	82				
140	40	190	140	120	150		230	170				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			°C								
			Field Temperature	20.7	14.8	16.4	14.6	19.2		16.8	13.7
			November-09								
			Field								
			feet								
			Static Water Level								
			Total Well Depth								
			mg/L								
			Oxygen, Dissolved								
			NTU								
			Turbidity								
			Std. Units								
			Field pH								
			mV								
			REDOX								
			µmhos/cm								
			Field Specific Conductance								
			°C								
			Field Temperature								
			September-09								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	92.8	80.7	289	334	66.8		104	27.2
10	10	µg/L	Chromium	2			5.4	8.6		0.65	
10	15	µg/L	Lead				4.8				
10	20	µg/L	Silver	0.48	0.68	1	2.4	0.6		0.88	0.16
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury								
			EPA 8260								
			µg/L								
5	350	µg/L	1,1-Dichloroethene								
100	700	µg/L	Carbon Disulfide			26.1				12.5	
1	5	µg/L	Methylene Chloride								
1	2000	µg/L	Trichlorofluoromethane								
			Field								
			feet								
			Static Water Level	37.16	8.89	22.73	9.59	11.33		39.87	16.7
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	3.6	1	0.5	1.8	6.3		1	5.4
			NTU								
			Turbidity	38	12	40	247	62		21	27
			Std. Units								
			Field pH	5.61	5.65	5.88	5.77	6.11		5.47	5.43
			mV								
			REDOX	334	175	37	259	362		292	342
			µmhos/cm								
			Field Specific Conductance	107	228	366	391	195		170	60

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
14.6	17.1	13.4	13	13.6	14.4		17.1	17.9				
				8.55								
				20								
				2.6								
				65								
				5.23								
				386								
				105								
				15.9								
128	39.1	31.8	38	117	242		77.7	52.1				
				0.8	10.7							
					7.2		17.5					
0.32	0.19	0.5	0.39	0.41	0.54		0.62	0.36				
								0.081				
				19.8								
	13											
											2.6	
				18.6								
51.52	12.36	4.48	4.85	9.35	51.28							
60	21	20	15.58	20	60							
6.1	6.9	1	2.4	4.1	6		0.6	8.4				
28	2	13	19	63	598		65	30				
5.45	5.35	6.15	5.83	5.56	5.53		6.16	6.55				
353	371	-22	197	290	364		28	111				
141	42	171	139	124	147		255	148				

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)

Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			°C								
			Field Temperature	18.1	18.8	17.6	19.2	16.6		18.9	16.1
			March-09								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	74.3	88.5	252	58.3	52.6		86.9	25
10	10	µg/L	Chromium	0.88	1.6		1.2	5.2			0.78
10	20	µg/L	Silver		0.58	0.29		0.28		0.42	
			EPA 8260								
			µg/L								
100	700	µg/L	Carbon Disulfide			3.3					
			Field								
			feet								
			Static Water Level	38.27	8.14	22.29	10.07	11.14		40.61	15.86
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	4.5	2.6	1.3	4.9	6.6		0.9	7.8
			Std. Units								
			Field pH	5.7	5.59	5.92	5.51	6.01		5.62	5.38
			mV								
			REDOX	585	198	1	433	517		355	523
			µmhos/cm								
			Field Specific Conductance	94	222	349	60	175		152	54
			°C								
			Field Temperature	15.4	13	14.7	11	13.6		15	14.8
			December-08								
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	85	98.8	231	263	56.1		99	32.8
10	10	µg/L	Chromium	0.64	0.5		0.58	5.3		0.91	0.97
10	15	µg/L	Lead								
10	20	µg/L	Selenium			11.8					
10	20	µg/L	Silver	0.62	1.2	1.5	2.6	0.78		0.96	0.15
			EPA 8260								
			µg/L								
5	70	µg/L	Chloroform		3.4						
			Field								
			feet								
			Static Water Level	38.39	9.13	22.72	11.18	11.78		40.61	17.8
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	4.43	0.64	0.62	0.81	6.83		1.88	6.01
			Std. Units								
			Field pH	5.79	5.76	5.79	5.88	6.08		5.64	5.85
			mV								
			REDOX	217	185	45	178	197		220	199
			µmhos/cm								
			Field Specific Conductance	93	218	268	422	176		152	53

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
16.9	18.9	19.3	19.5	17.9	16.8		19.8	20.9				
173	38.9	28.4	34.5	79.2	97.9		45.6	46.3				
7.6	0.65		2	1.6	0.4		0.61	0.42				
0.18												
52.36	11.7	3.73	4.13	8.34	51.52							
60	21	20	15.58	20	60							
6.4	7.2	2.4	7.1	4.2	8.3		6.4	8.6				
5.37	5.58	5.84	5.79	5.4	5.5		6.07	7.01				
466	353	-122	181	241	390		53	117				
115	37	137	114	89	140		146	126				
15.5	13.9	13.5	12.4	12.8	15		15.5	15.9				
					7.3							
124	41.9	28.6	57.9	88.7	583		78.2	50.6				
0.47				2.2	40.2		0.67					
					26.2							
		8.7										
0.36		0.79	0.37	0.44	0.46		0.39	0.5				
52.11	12.33	4.24	4.51	8.91	51.81							
60	21	20	15.58	20	60							
6.19	6.73	0.35	2.52	4.2	6.68		5.58	8.4				
5.7	5.73	6.33	5.98	5.68	5.81		5.04	6.19				
203	222	-79	-30	190	215		145	88				
117	35	133	118	84	135		196	130				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			°C								
			Field Temperature	14.8	13.3	14.6	14.7	15		12.8	15.3
			March-08								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	90.3	102	293	172	57.5		95.7	24
10	10	µg/L	Chromium	0.49	0.79	0.63	0.4	5.6		7.3	0.42
10	20	µg/L	Selenium			4.9					
10	20	µg/L	Silver	0.43	0.93	0.87	0.94	0.56		0.66	0.13
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury								0.1
			EPA 8260								
			µg/L								
100	4000	µg/L	2-Butanone (MEK)								
100	6000	µg/L	Acetone								
			Field								
			feet								
			Static Water Level	38.28	8.83	22.71	10.49	11.13		40.6	15.22
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	4.61	1.46	3.08	3.69	6.77		3.04	6.44
			Std. Units								
			Field pH	6.04	6.14	6.08	6.75	6.56		5.84	7.39
			mV								
			REDOX	56	29	-43	24	33		52	50
			µmhos/cm								
			Field Specific Conductance	91	234	258	254	172		141	51
			°C								
			Field Temperature	16.62	16.47	14.41	11.87	14.15		15.59	14
			November-07								
			(blank)								
			µg/L								
100	6000	µg/L	Acetone								
100	700	µg/L	Barium	105	107	273	287	70.6		101	26.6
10	10	µg/L	Chromium					8.4			
0.2	1	µg/L	Mercury								
10	20	µg/L	Selenium			18.1					
10	20	µg/L	Silver								0.16
			Field								
			feet								
			Static Water Level	38.12	9.32	22.72	10.65	11.65		40.4	16.78
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	5.08	0.72	1.69	1.32	6.5		0.85	7.12
			Std. Units								
			Field pH	6.52	6.67	6.21	6.35	7		6.07	6.27
			mV								
			REDOX	59	61	66	43	61		53	66

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
15	15.6	14.7	14.3	14.5	14.8		8.1	7				
124	42	29.2	60.5	64.6	186		79.7	50.6				
			1.8	1.1	4.1		1.2					
0.22		0.41	0.15	0.21	0.56		0.37	0.26				
												0.26
											4.6	
											15	
51.33	11.77	4.08	4.47	8.78	51.11							
60	21	20	15.58	20	60							
7.8	7.08	0.33	5.27	5.85	6.69		7.5	7.28				
5.66	6.81	7.12	7.22	6.45	5.82		7.69	8.54				
191	123	-172	18	74	124		197	195				
123	36	125	99	72	136		194	122				
17.68	14.52	13.95	12.86	15.63	16.47		14.74	13.5				
							22.7					
117	40.8	23.1	47.3	85.6	130		70.3	49.4				
					1.7		0.61					
					0.098							
0.32		0.39	0.26		0.48		0.51	0.26				
50.38	12.34	4.33	4.95	9.27	50.78							
60	21	20	15.58	20	60							
7.32	6.59	1.02	2.01	5.16	7.33		5	6.93				
5.73	5.95	6.67	6.48	6.83	5.82		6.18	7.35				
56	73	-80	21	73	58		34	48				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			µmhos/cm								
			Field Specific Conductance	85	176	217	394	161		126	51
			°C								
			Field Temperature	15.42	14.08	13.22	16.04	14.9		14.16	15.48
			April-07								
			(blank)								
			µg/L								
100	4000	µg/L	2-Butanone (MEK)								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	81	79	310	200	58		89	30
10	10	µg/L	Chromium					6.4			
10	15	µg/L	Lead								
10	20	µg/L	Selenium			24					
			Field								
			feet								
			Static Water Level	37.43	8.58	20.12	8.71	10.33		39.81	14.14
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	3.82	0.48	290	1.07	5.55		0.67	5.14
			Std. Units								
			Field pH	5.86	5.59	5.81	6	6.17		5.66	5.03
			mV								
			REDOX	58	50	-3	-8	36		30	48
			µmhos/cm								
			Field Specific Conductance	91	151	324	333	171		139	52
			°C								
			Field Temperature	15.4	12.4	14.2	12.1	13.5		15.4	14.3
			November-06								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	94	90	230	220	58		76	29
1	2	µg/L	Cadmium			2					
10	10	µg/L	Chromium					6.2			
10	15	µg/L	Lead								
			Field								
			feet								
			Static Water Level	38.17	8.74	22.3	9.81	11.17		40.13	16.19
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	4.28	0.31	1.15	0.42	5.88		1.21	6.2
			Std. Units								
			Field pH	6.29	5.97	5.94	6.16	6.49		5.94	6.15
			mV								
			REDOX	-13	114	160	59	59		95	35
			µmhos/cm								
			Field Specific Conductance	104	235	266	196	196		155	60
			°F								
			Field Temperature	58.8	59.3	59.5	59.9	60.2		58.1	59.9

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
121	36	121	114	65	140		218	112				
15.75	16.38	16.33	16.3	15.32	15.75		15.64	17.53				
												11
								5.5				
140	52	25	31	79	210		88	300				
					6.6			17				
					5.2			11				
								21				
49.98	11.43	2.66	4.21	8.67	49.43							
60	21	20	15.7	20	60							
5.35	5.53	280	6.57	4.59	5.7		5.5	6.16				
5.86	5.62	5.96	6.02	5.72	5.79		6.63	6.32				
90	124	-114	87	110	99		27	86				
115	39	125	105	72	140		314	130				
15.5	14	13.9	13.5	12.9	15.4		22.3	20.8				
					8.3							
140	71	24	66	62	460		54	44				
					35							
					23							
49.85	11.94	3.41	4.65	8.92	40.93							
60	21	20	15.6	20	60							
5.44	5.67	0.31	0.85	4.54	6.41		7.91	5.26				
5.94	5.84	6.64	6.24	5.84	6		7.28	6.65				
90	221	67	132	235	171		130	233				
136	45	145	127	80	152		66	140				
59.7	60.7	60.4	60.3	60.7	59.2		55.4	62.2				

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			April-06								
			(blank)								
			µg/L								
100	700	µg/L	Barium	82	52	290	220	57		74	29
10	10	µg/L	Chromium					6.2			
10	15	µg/L	Lead								
			November-05								
			EPA 6010								
			µg/L								
100	700	µg/L	Barium	78	62	300	180	54		60	26
10	10	µg/L	Chromium					3.5			
10	15	µg/L	Lead								
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury		0.34			0.4		0.24	0.26
			EPA 8260								
			µg/L								
1	3	µg/L	Chloromethane					5.4			
			June-05								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	48	43	300	150	53		53	25
10	10	µg/L	Chromium					5.6			
10	15	µg/L	Lead								
10	20	µg/L	Selenium	5.5							
			November-04								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic					5.1			
100	700	µg/L	Barium	95	52	340	140	80		63	30
10	10	µg/L	Chromium	2		2.3		14		4.4	2.4
			August-04								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium								
10	10	µg/L	Chromium								
10	15	µg/L	Lead								
10	20	µg/L	Selenium								
			May-04								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic				9.2	5			6
100	700	µg/L	Barium	96.3	55	270	380	76	28	180	480
10	10	µg/L	Chromium	3.5		3.7	14	7.3	2.2	26	28
10	15	µg/L	Lead			14	18	5.1			41

Summary of Detected Constituents

MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	SW-1	SW-2	SW-3	SW-4	Trip Blank	Equipment Blank
100	48	26	55	65	250		120	150				
			4	2	15		4.2	4.7				
					13			7.6				
100	46	27	77	59	120		73	51				
					3.9							
					5.9							
	0.2				0.44		1.1					
							23					
85	82	24	50	46	69		750	47				
							52					
							57					
95	55	28	77	57	66		53	65				
		3.9	2.1	4.8			3.2					
							20					
240	98	47	74	160	170		500	63				
14	13	3.3		9.2	3.2		36					
14	6.8			11	8		38					
	6.2											

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			November-03								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic							8.6	
100	700	µg/L	Barium	460	60	200	97	65	25	820	52
10	10	µg/L	Chromium		2.2	2.3	2.6	8.7	2.4	150	3.2
10	15	µg/L	Lead	22						24	
			May-03								
			(blank)								
			µg/L								
100	700	µg/L	Barium	120	56	220	94	72	24	130	77
1	2	µg/L	Cadmium					2.7			
10	10	µg/L	Chromium	4.3			5.5	9.5		17	3.8
10	15	µg/L	Lead				5.3			5.3	6.7
			December-02								
			(blank)								
			µg/L								
100	700	µg/L	Barium	100	140	13	86	65	41	210	48
1	2	µg/L	Cadmium		1.9						
10	10	µg/L	Chromium	2.3	2.1		5	7.4	3.2	32	2
10	15	µg/L	Lead				6			6	
			April-02								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic			7.4					
100	700	µg/L	Barium	130	100	370	61	150	180	84	150
10	10	µg/L	Chromium	5		15		23	26	6.8	23
10	15	µg/L	Lead			21			7.6		
10	20	µg/L	Silver							2.6	
			November-01								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic	5.8		8.4	12	7	16	17	36
100	700	µg/L	Barium	280	160	400	900	610	530	1300	2700
10	10	µg/L	Chromium	22	16	19	95	140	95	270	94
10	15	µg/L	Lead	10	7	35	36	13	38	36	150
1	600	µg/L	Toluene	21							
			July-01								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic			18	5.6			16	46
100	700	µg/L	Barium	87	280	950	550	270	62	1300	2600
10	10	µg/L	Chromium	6.6	16	50	38	49	4.1	210	92
10	15	µg/L	Lead		8.9	53	14	7.6		26	210

Summary of Detected Constituents

Facility Permit 34-12 Old Salisbury Road Landfill (C&D)

Qualifier (Multiple Items)

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			December-00								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic			31		5		45	89
100	700	µg/L	Barium	150	61	1500	350	400	41	2600	4200
10	10	µg/L	Chromium	6.6	3.9	100	28	82	2.6	580	240
10	15	µg/L	Lead			80	8.1	7.6		65	400
			June-00								
			(blank)								
			µg/L								
100	700	µg/L	Barium	110	180	300	570	200	82	360	
10	10	µg/L	Chromium		3			8.1		2.5	
10	15	µg/L	Lead		6.5		9.5		5.8	8.7	
			November-99								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic			5.9	7.5				
100	700	µg/L	Barium	130	120	52	860	200	59	390	
10	10	µg/L	Chromium	5.2	14	24	60	29	2.8	62	
10	15	µg/L	Lead		6.9	40	40	8.2		12	
0.2	1	µg/L	Mercury				0.36				
			June-99								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic							9.8	
100	700	µg/L	Barium	150	150		950	240		960	
10	10	µg/L	Chromium	7.8	7.8		110	38		190	
10	15	µg/L	Lead				50	16		30	
1	5	µg/L	Methylene Chloride	13	13		10	10		10	
			November-98								
			(blank)								
			µg/L								
100	6000	µg/L	Acetone					150			
10	10	µg/L	Arsenic		11						
100	700	µg/L	Barium	160	1100	1400	2000	480	160	1300	
100	700	µg/L	Carbon Disulfide	28				25		9	
10	10	µg/L	Chromium	12	210	77	300	96	12	350	
10	15	µg/L	Lead		68	39	76	29		36	
0.2	1	µg/L	Mercury				0.21				
			May-98								
			(blank)								
			µg/L								
10	10	µg/L	Arsenic					5			
100	700	µg/L	Barium	100	190	860	850	820	360	1200	
10	10	µg/L	Chromium	49	34	25	130	170	33	430	
10	15	µg/L	Lead		19	32	43	69	20	38	

Summary of Detected Constituents

Facility Permit	34-12	Old Salisbury Road Landfill (C&D)
Qualifier	(Multiple Items)	

MCL SWSL	MCL 2L	Units	Concentration	MW-1R	MW-2R	MW-3R	MW-4R	MW-5R	MW-6R	MW-7	MW-8
			October-97								
			(blank)								
			µg/L								
100	700	µg/L	Barium	290	340	620	650	610	260	1800	
10	10	µg/L	Chromium	11	43	16	55	16	14	410	
10	15	µg/L	Lead	12	31	26	29	31	14	53	
0.2	1	µg/L	Mercury			0.2				0.2	
			May-97								
			(blank)								
			µg/L								
100	700	µg/L	Barium	100	200	800	280	330	300	750	
1	2	µg/L	Cadmium		3						
10	10	µg/L	Chromium	3	4	28		70	21	180	
10	15	µg/L	Lead		14	27	12	14	14	23	
10	20	µg/L	Silver		6		6				
			October-96								
			(blank)								
			µg/L								
100	700	µg/L	Barium	180	160	790	720	620	590	970	
10	10	µg/L	Chromium	6	9	20	47	43	10	21	
10	15	µg/L	Lead		8	15	16	20	11	6	
0.2	1	µg/L	Mercury	0.2			0.3			0.4	
			January-96								
			(blank)								
			µg/L								
100	4000	µg/L	2-Butanone (MEK)		86						
100	700	µg/L	Barium	224	350	1230	595	1000	1400	1930	
1	2	µg/L	Cadmium				7				
100	700	µg/L	Carbon Disulfide	23							
10	10	µg/L	Chromium		12	9	21	96	12	28	
10	15	µg/L	Lead	6	26	15	17	19	18	17	
0.2	1	µg/L	Mercury	1.8	0.4	0.7	1.7	0.8	1.4	1.4	

B

Appendix B – Laboratory Groundwater Report

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 22, 2014

Mr. Eric Wright
HDR Engineering
440 South Church Street
Suite 1000
Charlotte, NC 28202

RE: Project: OSR
Pace Project No.: 92226122

Dear Mr. Wright:
Enclosed are the analytical results for sample(s) received by the laboratory between November 18, 2014 and November 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: OSR
Pace Project No.: 92226122

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92226122001	**3412-MW3R**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122002	**3412-MW7**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122003	**3412-Equipment Blank**	EPA 8260	JDW1	52	PASI-C
92226122004	**3412-Trip Blank**	EPA 8260	JDW1	52	PASI-C
92226122005	**3412-MW1R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	BPJ	6	PASI-C
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122006	**3412-MW4R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	BPJ	9	PASI-C

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122007	**3412-MW5R**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122008	**3412-MW8**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122009	**3412-MW9**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122010	**3412-MW14**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122011	**3412-MW10**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122012	**3412-MW11**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122013	**3412-MW12**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122014	**3412-MW13**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	JDW1	52	PASI-C
		SM 2320B	MAB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122015	**3412-MW15**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	RES	6	PASI-C
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	TEP	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122016	**3412-MW2R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	RES	6	PASI-C
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	TEP	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122017	**3412-SW3**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	TEP	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	JDA	1	PASI-A
92226122018	**3412-SW2**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	TEP	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122019	**3412-SW4**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	TEP	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92226122020	**3412-SW1**	EPA 6010	JMW	19	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MAB	1	PASI-A
		SM 2540C	TEP	1	PASI-A
		SM 4500-S2D	JTJ	1	PASI-A
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW3R **Lab ID: 92226122001** Collected: 11/17/14 14:00 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**6.0**	Std. Units	0.10	1		11/17/14 14:00		
Field Temperature	**13.2**	deg C	0.50	1		11/17/14 14:00		
Static Water Level	**21.87**	feet		1		11/17/14 14:00		
Field Specific Conductance	**363**	umhos/cm	1.0	1		11/17/14 14:00		
Oxygen, Dissolved	**6.3**	mg/L		1		11/17/14 14:00	7782-44-7	
Total Well Depth	**27**	feet		1		11/17/14 14:00		
REDOX	**13**	mV		1		11/17/14 14:00		
Turbidity	**5.2**	NTU	1.0	1		11/17/14 14:00		
Odor	**NONE**			1		11/17/14 14:00		
Appearance	**CLEAR**			1		11/17/14 14:00		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:14	7440-38-2	
Barium	**221**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:14	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:14	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-47-3	
Cobalt	**13.3**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-48-4	
Copper	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-50-8	
Iron	**49700**	ug/L	50.0	1	11/20/14 16:15	11/21/14 04:14	7439-89-6	
Lead	**2.7J**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7439-92-1	
Manganese	**9380**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:14	7782-49-2	
Silver	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-22-4	
Sodium	**2770J**	ug/L	5000	1	11/20/14 16:15	11/21/14 04:14	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/20/14 16:15	11/21/14 04:14	7440-28-0	
Tin	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-31-5	
Vanadium	**2.8J**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:14	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:14	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/14 11:25	11/20/14 14:54	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/19/14 16:15	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/19/14 16:15	107-13-1	
Benzene	ND	ug/L	1.0	1		11/19/14 16:15	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/19/14 16:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/14 16:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/14 16:15	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/14 16:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/14 16:15	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/19/14 16:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/14 16:15	56-23-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW3R **Lab ID: 92226122001** Collected: 11/17/14 14:00 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	1.0	1		11/19/14 16:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/14 16:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/14 16:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/14 16:15	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/14 16:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/14 16:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/14 16:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/14 16:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/14 16:15	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/14 16:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/19/14 16:15	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/14 16:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/14 16:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/14 16:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/14 16:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/14 16:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/14 16:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/14 16:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/14 16:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/19/14 16:15	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/19/14 16:15	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/19/14 16:15	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/19/14 16:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/14 16:15	108-10-1	
Styrene	ND	ug/L	1.0	1		11/19/14 16:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/14 16:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/14 16:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/14 16:15	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/19/14 16:15	109-99-9	
Toluene	ND	ug/L	1.0	1		11/19/14 16:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/14 16:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/14 16:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/14 16:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/14 16:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/14 16:15	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/14 16:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/14 16:15	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/14 16:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/14 16:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		11/19/14 16:15	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		11/19/14 16:15	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/19/14 16:15	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**177000**	ug/L	5000	1		11/19/14 18:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW3R **Lab ID: 92226122001** Collected: 11/17/14 14:00 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**191000**	ug/L	25000	1		11/21/14 12:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/20/14 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**3740**	ug/L	2000	1		11/23/14 18:37	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**2940**	ug/L	1000	1		12/03/14 02:45	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**10.4**	ug/L	8.0	1		11/23/14 16:06	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW7 **Lab ID: 92226122002** Collected: 11/17/14 15:45 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.6**	Std. Units	0.10	1		11/17/14 15:45		
Field Temperature	**13.7**	deg C	0.50	1		11/17/14 15:45		
Static Water Level	**36.90**	feet		1		11/17/14 15:45		
Field Specific Conductance	**186**	umhos/cm	1.0	1		11/17/14 15:45		
Oxygen, Dissolved	**0.5**	mg/L		1		11/17/14 15:45	7782-44-7	
Total Well Depth	**48**	feet		1		11/17/14 15:45		
REDOX	**184**	mV		1		11/17/14 15:45		
Turbidity	**1.2**	NTU	1.0	1		11/17/14 15:45		
Odor	**NONE**			1		11/17/14 15:45		
Appearance	**CLEAR**			1		11/17/14 15:45		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:17	7440-38-2	
Barium	**111**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:17	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:17	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-48-4	
Copper	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-50-8	
Iron	**76.5**	ug/L	50.0	1	11/20/14 16:15	11/21/14 04:17	7439-89-6	
Lead	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7439-92-1	
Manganese	**22.9**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:17	7782-49-2	
Silver	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-22-4	
Sodium	**16600**	ug/L	5000	1	11/20/14 16:15	11/21/14 04:17	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/20/14 16:15	11/21/14 04:17	7440-28-0	
Tin	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:17	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:17	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/14 11:25	11/20/14 15:07	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/19/14 16:31	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/19/14 16:31	107-13-1	
Benzene	ND	ug/L	1.0	1		11/19/14 16:31	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/19/14 16:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/14 16:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/14 16:31	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/14 16:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/14 16:31	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/19/14 16:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/14 16:31	56-23-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW7 **Lab ID: 92226122002** Collected: 11/17/14 15:45 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	1.0	1		11/19/14 16:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/14 16:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/14 16:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/14 16:31	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/14 16:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/14 16:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/14 16:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/14 16:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/14 16:31	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/14 16:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/19/14 16:31	110-57-6	
1,1-Dichloroethane	**1.3**	ug/L	1.0	1		11/19/14 16:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/14 16:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/14 16:31	75-35-4	
cis-1,2-Dichloroethene	**0.73J**	ug/L	1.0	1		11/19/14 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/14 16:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/14 16:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/14 16:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/14 16:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/19/14 16:31	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/19/14 16:31	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/19/14 16:31	74-88-4	
Methylene Chloride	**2.9**	ug/L	1.0	1		11/19/14 16:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/14 16:31	108-10-1	
Styrene	ND	ug/L	1.0	1		11/19/14 16:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/14 16:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/14 16:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/14 16:31	127-18-4	
Tetrahydrofuran	**8.8J**	ug/L	10.0	1		11/19/14 16:31	109-99-9	
Toluene	ND	ug/L	1.0	1		11/19/14 16:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/14 16:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/14 16:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/14 16:31	79-01-6	
Trichlorofluoromethane	**1.2**	ug/L	1.0	1		11/19/14 16:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/14 16:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/14 16:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/14 16:31	75-01-4	
m&p-Xylene	**1.1J**	ug/L	2.0	1		11/19/14 16:31	179601-23-1	
o-Xylene	**0.36J**	ug/L	1.0	1		11/19/14 16:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		11/19/14 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	1		11/19/14 16:31	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/19/14 16:31	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**62400**	ug/L	5000	1		11/19/14 18:51		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW7 **Lab ID: 92226122002** Collected: 11/17/14 15:45 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**138000**	ug/L	25000	1		11/21/14 12:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/20/14 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1360J**	ug/L	2000	1		11/23/14 18:51	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**4300**	ug/L	1000	1		12/03/14 02:46	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		11/23/14 16:07	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-Equipment Blank **Lab ID: 92226122003** Collected: 11/17/14 10:45 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/19/14 15:44	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/19/14 15:44	107-13-1	
Benzene	ND	ug/L	1.0	1		11/19/14 15:44	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/19/14 15:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/14 15:44	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/14 15:44	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/14 15:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/14 15:44	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/19/14 15:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/14 15:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/14 15:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/14 15:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/14 15:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/14 15:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/14 15:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/14 15:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/14 15:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/14 15:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/14 15:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/14 15:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/19/14 15:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/14 15:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/14 15:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/14 15:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/14 15:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/14 15:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/14 15:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/14 15:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/14 15:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/19/14 15:44	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/19/14 15:44	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/19/14 15:44	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/19/14 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/14 15:44	108-10-1	
Styrene	ND	ug/L	1.0	1		11/19/14 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/14 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/14 15:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/14 15:44	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/19/14 15:44	109-99-9	
Toluene	ND	ug/L	1.0	1		11/19/14 15:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/14 15:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/14 15:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/14 15:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/14 15:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/14 15:44	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/14 15:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/14 15:44	75-01-4	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-Equipment Blank **Lab ID: 92226122003** Collected: 11/17/14 10:45 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
m&p-Xylene	ND	ug/L	2.0	1		11/19/14 15:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/14 15:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		11/19/14 15:44	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		11/19/14 15:44	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/19/14 15:44	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-Trip Blank **Lab ID: 92226122004** Collected: 11/17/14 00:00 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/19/14 16:00	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/19/14 16:00	107-13-1	
Benzene	ND	ug/L	1.0	1		11/19/14 16:00	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/19/14 16:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/14 16:00	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/14 16:00	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/14 16:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/14 16:00	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/19/14 16:00	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/14 16:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/14 16:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/14 16:00	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/14 16:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/14 16:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/14 16:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/14 16:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/14 16:00	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/14 16:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/14 16:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/14 16:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/19/14 16:00	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/14 16:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/14 16:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/14 16:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/14 16:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/14 16:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/14 16:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/14 16:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/14 16:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/19/14 16:00	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/19/14 16:00	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/19/14 16:00	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/19/14 16:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/14 16:00	108-10-1	
Styrene	ND	ug/L	1.0	1		11/19/14 16:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/14 16:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/14 16:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/14 16:00	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/19/14 16:00	109-99-9	
Toluene	ND	ug/L	1.0	1		11/19/14 16:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/14 16:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/14 16:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/14 16:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/14 16:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/14 16:00	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/14 16:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/14 16:00	75-01-4	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-Trip Blank **Lab ID: 92226122004** Collected: 11/17/14 00:00 Received: 11/18/14 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
m&p-Xylene	ND	ug/L	2.0	1		11/19/14 16:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/14 16:00	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		11/19/14 16:00	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		11/19/14 16:00	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		11/19/14 16:00	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW1R **Lab ID: 92226122005** Collected: 11/18/14 11:03 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.6**	Std. Units	0.10	1		11/18/14 11:03		
Field Temperature	**14.8**	deg C	0.50	1		11/18/14 11:03		
Static Water Level	**34.85**	feet		1		11/18/14 11:03		
Field Specific Conductance	**138**	umhos/cm	1.0	1		11/18/14 11:03		
Oxygen, Dissolved	**1.0**	mg/L		1		11/18/14 11:03	7782-44-7	
Total Well Depth	**60**	feet		1		11/18/14 11:03		
REDOX	**194**	mV		1		11/18/14 11:03		
Turbidity	**1.7**	NTU	1.0	1		11/18/14 11:03		
Odor	**NONE**			1		11/18/14 11:03		
Appearance	**CLEAR**			1		11/18/14 11:03		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	319-84-6	
delta-BHC	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	33213-65-9	
Endrin	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:01	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	11/20/14 13:00	11/24/14 17:01	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	73	%	20-130	1	11/20/14 13:00	11/24/14 17:01	877-09-8	
Decachlorobiphenyl (S)	86	%	20-130	1	11/20/14 13:00	11/24/14 17:01	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	ND	ug/L	0.94	1	11/24/14 09:55	11/25/14 13:59	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	11/24/14 09:55	11/25/14 13:59	93-72-1	
Surrogates								
2,4-DCAA (S)	90	%	66-130	1	11/24/14 09:55	11/25/14 13:59	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:20	7440-38-2	
Barium	**142**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:20	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:20	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-48-4	
Copper	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-50-8	
Iron	**85.8**	ug/L	50.0	1	11/20/14 16:15	11/21/14 04:20	7439-89-6	
Lead	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7439-92-1	
Manganese	**2.9J**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:20	7782-49-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW1R **Lab ID: 92226122005** Collected: 11/18/14 11:03 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Silver	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-22-4	
Sodium	**10600**	ug/L	5000	1	11/20/14 16:15	11/21/14 04:20	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/20/14 16:15	11/21/14 04:20	7440-28-0	
Tin	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:20	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:20	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/14 11:25	11/20/14 15:39	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	11/20/14 15:49	11/21/14 18:03	56-55-3	
Chrysene	ND	ug/L	10.0	1	11/20/14 15:49	11/21/14 18:03	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	11/20/14 15:49	11/21/14 18:03	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	37	%	21-110	1	11/20/14 15:49	11/21/14 18:03	4165-60-0	
2-Fluorobiphenyl (S)	32	%	27-110	1	11/20/14 15:49	11/21/14 18:03	321-60-8	
Terphenyl-d14 (S)	56	%	31-107	1	11/20/14 15:49	11/21/14 18:03	1718-51-0	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/20/14 15:12	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/20/14 15:12	107-13-1	
Benzene	ND	ug/L	1.0	1		11/20/14 15:12	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/20/14 15:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/14 15:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/20/14 15:12	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/20/14 15:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/20/14 15:12	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/20/14 15:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/20/14 15:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/20/14 15:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/14 15:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/20/14 15:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/14 15:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/20/14 15:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/14 15:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/14 15:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/14 15:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 15:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 15:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/20/14 15:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/14 15:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/14 15:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:12	156-60-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW1R **Lab ID: 92226122005** Collected: 11/18/14 11:03 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/14 15:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 15:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 15:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/20/14 15:12	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/20/14 15:12	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/20/14 15:12	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/20/14 15:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/20/14 15:12	108-10-1	
Styrene	ND	ug/L	1.0	1		11/20/14 15:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 15:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 15:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/20/14 15:12	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/14 15:12	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/14 15:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/14 15:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/14 15:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/14 15:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/14 15:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/14 15:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/20/14 15:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/20/14 15:12	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/20/14 15:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/20/14 15:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		11/20/14 15:12	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		11/20/14 15:12	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/20/14 15:12	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**37600**	ug/L	5000	1		11/25/14 18:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**120000**	ug/L	25000	1		11/24/14 17:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/20/14 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1720J**	ug/L	2000	1		12/02/14 23:00	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**7090**	ug/L	1000	1		12/03/14 03:02	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**4.4J**	ug/L	8.0	1		12/02/14 14:19	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW4R **Lab ID: 92226122006** Collected: 11/18/14 13:04 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.9**	Std. Units	0.10	1		11/18/14 13:04		
Field Temperature	**13.7**	deg C	0.50	1		11/18/14 13:04		
Static Water Level	**9.20**	feet		1		11/18/14 13:04		
Field Specific Conductance	**971**	umhos/cm	1.0	1		11/18/14 13:04		
Oxygen, Dissolved	**0.5**	mg/L		1		11/18/14 13:04	7782-44-7	
Total Well Depth	**20**	feet		1		11/18/14 13:04		
REDOX	**158**	mV		1		11/18/14 13:04		
Turbidity	**10.0**	NTU	1.0	1		11/18/14 13:04		
Odor	**NONE**			1		11/18/14 13:04		
Appearance	**CLEAR**			1		11/18/14 13:04		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	319-84-6	
delta-BHC	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	33213-65-9	
Endrin	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	11/20/14 13:00	11/24/14 17:18	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	11/20/14 13:00	11/24/14 17:18	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	59	%	20-130	1	11/20/14 13:00	11/24/14 17:18	877-09-8	
Decachlorobiphenyl (S)	57	%	20-130	1	11/20/14 13:00	11/24/14 17:18	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	ND	ug/L	0.94	1	11/24/14 09:55	11/25/14 14:29	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	11/24/14 09:55	11/25/14 14:29	93-72-1	
Surrogates								
2,4-DCAA (S)	92	%	66-130	1	11/24/14 09:55	11/25/14 14:29	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:23	7440-38-2	
Barium	**305**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:23	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:23	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-47-3	
Cobalt	**82.0**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-48-4	
Copper	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-50-8	
Iron	**126**	ug/L	50.0	1	11/20/14 16:15	11/21/14 04:23	7439-89-6	
Lead	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7439-92-1	
Manganese	**1040**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7439-96-5	
Nickel	**7.2**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:23	7782-49-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW4R **Lab ID: 92226122006** Collected: 11/18/14 13:04 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Silver	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-22-4	
Sodium	**55400**	ug/L	5000	1	11/20/14 16:15	11/21/14 04:23	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/20/14 16:15	11/21/14 04:23	7440-28-0	
Tin	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-31-5	
Vanadium	**2.7J**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:23	7440-62-2	
Zinc	**7.2J**	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:23	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/14 11:25	11/20/14 15:41	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	11/20/14 15:49	11/21/14 18:30	56-55-3	
Chrysene	ND	ug/L	10.0	1	11/20/14 15:49	11/21/14 18:30	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	11/20/14 15:49	11/21/14 18:30	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	58	%	21-110	1	11/20/14 15:49	11/21/14 18:30	4165-60-0	
2-Fluorobiphenyl (S)	58	%	27-110	1	11/20/14 15:49	11/21/14 18:30	321-60-8	
Terphenyl-d14 (S)	53	%	31-107	1	11/20/14 15:49	11/21/14 18:30	1718-51-0	
Phenol-d6 (S)	19	%	10-110	1	11/20/14 15:49	11/21/14 18:30	13127-88-3	
2-Fluorophenol (S)	27	%	12-110	1	11/20/14 15:49	11/21/14 18:30	367-12-4	
2,4,6-Tribromophenol (S)	61	%	27-110	1	11/20/14 15:49	11/21/14 18:30	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/20/14 15:27	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/20/14 15:27	107-13-1	
Benzene	**0.42J**	ug/L	1.0	1		11/20/14 15:27	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/20/14 15:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/14 15:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/20/14 15:27	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/20/14 15:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/20/14 15:27	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/20/14 15:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/20/14 15:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/20/14 15:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/14 15:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/20/14 15:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/14 15:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/20/14 15:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/14 15:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/14 15:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/14 15:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 15:27	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 15:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/20/14 15:27	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/14 15:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/14 15:27	107-06-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW4R **Lab ID: 92226122006** Collected: 11/18/14 13:04 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/14 15:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 15:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 15:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/20/14 15:27	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/20/14 15:27	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/20/14 15:27	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/20/14 15:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/20/14 15:27	108-10-1	
Styrene	ND	ug/L	1.0	1		11/20/14 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 15:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 15:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/20/14 15:27	127-18-4	
Tetrahydrofuran	**15.9**	ug/L	10.0	1		11/20/14 15:27	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/14 15:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/14 15:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/14 15:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/14 15:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/14 15:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/14 15:27	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/20/14 15:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/20/14 15:27	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/20/14 15:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/20/14 15:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		11/20/14 15:27	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		11/20/14 15:27	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/20/14 15:27	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**286000**	ug/L	5000	1		11/25/14 18:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**692000**	ug/L	25000	1		11/24/14 17:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/20/14 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**143000**	ug/L	10000	5		12/02/14 23:41	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**50500**	ug/L	5000	5		12/03/14 03:24	16887-00-6	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW4R **Lab ID: 92226122006** Collected: 11/18/14 13:04 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**4.3J**	ug/L	8.0	1		12/02/14 14:22	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW5R **Lab ID: 92226122007** Collected: 11/18/14 12:30 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**6.0**	Std. Units	0.10	1		11/18/14 12:30		
Field Temperature	**12.9**	deg C	0.50	1		11/18/14 12:30		
Static Water Level	**11.18**	feet		1		11/18/14 12:30		
Field Specific Conductance	**184**	umhos/cm	1.0	1		11/18/14 12:30		
Oxygen, Dissolved	**5.0**	mg/L		1		11/18/14 12:30	7782-44-7	
Total Well Depth	**30**	feet		1		11/18/14 12:30		
REDOX	**198**	mV		1		11/18/14 12:30		
Turbidity	**3.6**	NTU	1.0	1		11/18/14 12:30		
Odor	**NONE**			1		11/18/14 12:30		
Appearance	**CLEAR**			1		11/18/14 12:30		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:26	7440-38-2	
Barium	**58.2**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:26	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:26	7440-43-9	
Chromium	**4.8J**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-48-4	
Copper	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-50-8	
Iron	**221**	ug/L	50.0	1	11/20/14 16:15	11/21/14 04:26	7439-89-6	
Lead	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7439-92-1	
Manganese	**2.6J**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:26	7782-49-2	
Silver	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-22-4	
Sodium	**13700**	ug/L	5000	1	11/20/14 16:15	11/21/14 04:26	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/20/14 16:15	11/21/14 04:26	7440-28-0	
Tin	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-31-5	
Vanadium	**5.6**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:26	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/14 11:25	11/20/14 15:44	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/20/14 15:58	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/20/14 15:58	107-13-1	
Benzene	ND	ug/L	1.0	1		11/20/14 15:58	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/20/14 15:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/14 15:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/20/14 15:58	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/20/14 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/20/14 15:58	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/20/14 15:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/20/14 15:58	56-23-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW5R **Lab ID: 92226122007** Collected: 11/18/14 12:30 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	1.0	1		11/20/14 15:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/14 15:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/20/14 15:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/14 15:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/20/14 15:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/14 15:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/14 15:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/14 15:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 15:58	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 15:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/20/14 15:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/14 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/14 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/14 15:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 15:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/20/14 15:58	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/20/14 15:58	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/20/14 15:58	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/20/14 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/20/14 15:58	108-10-1	
Styrene	ND	ug/L	1.0	1		11/20/14 15:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 15:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 15:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/20/14 15:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/14 15:58	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/14 15:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/14 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/14 15:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/14 15:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/14 15:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/14 15:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/20/14 15:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/20/14 15:58	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/20/14 15:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/20/14 15:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		11/20/14 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		11/20/14 15:58	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/20/14 15:58	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**24000**	ug/L	5000	1		11/26/14 17:19		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW5R **Lab ID: 92226122007** Collected: 11/18/14 12:30 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**163000**	ug/L	25000	1		11/24/14 17:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/20/14 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**8180**	ug/L	2000	1		12/02/14 23:55	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**15500**	ug/L	1000	1		12/03/14 03:04	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**5.1J**	ug/L	8.0	1		12/02/14 14:22	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW8 **Lab ID: 92226122008** Collected: 11/18/14 14:06 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.7**	Std. Units	0.10	1		11/18/14 14:06		
Field Temperature	**13.0**	deg C	0.50	1		11/18/14 14:06		
Static Water Level	**18.79**	feet		1		11/18/14 14:06		
Field Specific Conductance	**59**	umhos/cm	1.0	1		11/18/14 14:06		
Oxygen, Dissolved	**2.3**	mg/L		1		11/18/14 14:06	7782-44-7	
Total Well Depth	**27**	feet		1		11/18/14 14:06		
REDOX	**224**	mV		1		11/18/14 14:06		
Turbidity	**9.1**	NTU	1.0	1		11/18/14 14:06		
Odor	**NONE**			1		11/18/14 14:06		
Appearance	**CLEAR**			1		11/18/14 14:06		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-36-0	
Arsenic	**2.6J**	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:30	7440-38-2	
Barium	**38.0**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:30	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:30	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-48-4	
Copper	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-50-8	
Iron	**529**	ug/L	50.0	1	11/20/14 16:15	11/21/14 04:30	7439-89-6	
Lead	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7439-92-1	
Manganese	**19.9**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:30	7782-49-2	
Silver	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-22-4	
Sodium	**7810**	ug/L	5000	1	11/20/14 16:15	11/21/14 04:30	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/20/14 16:15	11/21/14 04:30	7440-28-0	
Tin	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:30	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:30	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/14 11:25	11/20/14 15:47	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/20/14 16:14	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/20/14 16:14	107-13-1	
Benzene	ND	ug/L	1.0	1		11/20/14 16:14	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/20/14 16:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/14 16:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/20/14 16:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/20/14 16:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/20/14 16:14	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/20/14 16:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/20/14 16:14	56-23-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW8 **Lab ID: 92226122008** Collected: 11/18/14 14:06 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	1.0	1		11/20/14 16:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/14 16:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/20/14 16:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/14 16:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/20/14 16:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/14 16:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/14 16:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/14 16:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 16:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 16:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/20/14 16:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/14 16:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/14 16:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/14 16:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 16:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 16:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/20/14 16:14	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/20/14 16:14	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/20/14 16:14	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/20/14 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/20/14 16:14	108-10-1	
Styrene	ND	ug/L	1.0	1		11/20/14 16:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 16:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 16:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/20/14 16:14	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/14 16:14	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/14 16:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/14 16:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/14 16:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/14 16:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/20/14 16:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/14 16:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/20/14 16:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/20/14 16:14	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/20/14 16:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/20/14 16:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		11/20/14 16:14	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		11/20/14 16:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/20/14 16:14	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**22800**	ug/L	5000	1		11/26/14 17:53		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW8 **Lab ID: 92226122008** Collected: 11/18/14 14:06 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**64000**	ug/L	25000	1		11/24/14 17:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/20/14 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		12/03/14 00:08	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**1350**	ug/L	1000	1		12/03/14 03:04	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 14:23	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW9 **Lab ID: 92226122009** Collected: 11/18/14 14:55 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.5**	Std. Units	0.10	1		11/18/14 14:55		
Field Temperature	**12.4**	deg C	0.50	1		11/18/14 14:55		
Static Water Level	**52.37**	feet		1		11/18/14 14:55		
Field Specific Conductance	**161**	umhos/cm	1.0	1		11/18/14 14:55		
Oxygen, Dissolved	**8.3**	mg/L		1		11/18/14 14:55	7782-44-7	
Total Well Depth	**60**	feet		1		11/18/14 14:55		
REDOX	**252**	mV		1		11/18/14 14:55		
Turbidity	**2.0**	NTU	1.0	1		11/18/14 14:55		
Odor	**NONE**			1		11/18/14 14:55		
Appearance	**CLEAR**			1		11/18/14 14:55		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-36-0	
Arsenic	**3.5J**	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:42	7440-38-2	
Barium	**193**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:42	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:42	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-48-4	
Copper	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-50-8	
Iron	**55.9**	ug/L	50.0	1	11/20/14 16:15	11/21/14 04:42	7439-89-6	
Lead	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7439-92-1	
Manganese	**7.6**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:42	7782-49-2	
Silver	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-22-4	
Sodium	**14600**	ug/L	5000	1	11/20/14 16:15	11/21/14 04:42	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/20/14 16:15	11/21/14 04:42	7440-28-0	
Tin	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:42	7440-62-2	
Zinc	**5.3J**	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:42	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/21/14 10:45	11/21/14 14:07	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/20/14 16:29	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/20/14 16:29	107-13-1	
Benzene	ND	ug/L	1.0	1		11/20/14 16:29	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/20/14 16:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/14 16:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/20/14 16:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/20/14 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/20/14 16:29	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/20/14 16:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/20/14 16:29	56-23-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW9 **Lab ID: 92226122009** Collected: 11/18/14 14:55 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	1.0	1		11/20/14 16:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/14 16:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/20/14 16:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/14 16:29	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/20/14 16:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/14 16:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/14 16:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/14 16:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 16:29	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 16:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/20/14 16:29	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/14 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/14 16:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/14 16:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 16:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/20/14 16:29	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/20/14 16:29	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/20/14 16:29	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/20/14 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/20/14 16:29	108-10-1	
Styrene	ND	ug/L	1.0	1		11/20/14 16:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 16:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 16:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/20/14 16:29	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/14 16:29	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/14 16:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/14 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/14 16:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/14 16:29	79-01-6	
Trichlorofluoromethane	**0.96J**	ug/L	1.0	1		11/20/14 16:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/14 16:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/20/14 16:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/20/14 16:29	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/20/14 16:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/20/14 16:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		11/20/14 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130	1		11/20/14 16:29	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/20/14 16:29	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**18300**	ug/L	5000	1		11/26/14 18:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW9 **Lab ID: 92226122009** Collected: 11/18/14 14:55 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**141000**	ug/L	25000	1		11/24/14 17:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/20/14 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**2100**	ug/L	2000	1		12/03/14 00:49	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3610**	ug/L	1000	1		12/03/14 03:05	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 14:24	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW14 **Lab ID: 92226122010** Collected: 11/18/14 15:15 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.6**	Std. Units	0.10	1		11/18/14 15:35		
Field Temperature	**11.9**	deg C	0.50	1		11/18/14 15:35		
Static Water Level	**51.90**	feet		1		11/18/14 15:35		
Field Specific Conductance	**159**	umhos/cm	1.0	1		11/18/14 15:35		
Oxygen, Dissolved	**3.8**	mg/L		1		11/18/14 15:35	7782-44-7	
Total Well Depth	**60**	feet		1		11/18/14 15:35		
REDOX	**242**	mV		1		11/18/14 15:35		
Turbidity	**7.8**	NTU	1.0	1		11/18/14 15:35		
Odor	**NONE**			1		11/18/14 15:35		
Appearance	**CLEAR**			1		11/18/14 15:35		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:45	7440-38-2	
Barium	**193**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-39-3	
Beryllium	**0.60J**	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:45	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/20/14 16:15	11/21/14 04:45	7440-43-9	
Chromium	**4.5J**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-48-4	
Copper	**4.8J**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-50-8	
Iron	**2620**	ug/L	50.0	1	11/20/14 16:15	11/21/14 04:45	7439-89-6	
Lead	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7439-92-1	
Manganese	**120**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7439-96-5	
Nickel	**5.3**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:45	7782-49-2	
Silver	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-22-4	
Sodium	**14400**	ug/L	5000	1	11/20/14 16:15	11/21/14 04:45	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/20/14 16:15	11/21/14 04:45	7440-28-0	
Tin	ND	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-31-5	
Vanadium	**5.5**	ug/L	5.0	1	11/20/14 16:15	11/21/14 04:45	7440-62-2	
Zinc	**13.3**	ug/L	10.0	1	11/20/14 16:15	11/21/14 04:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/21/14 10:45	11/21/14 14:20	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/20/14 16:45	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/20/14 16:45	107-13-1	
Benzene	ND	ug/L	1.0	1		11/20/14 16:45	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/20/14 16:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/20/14 16:45	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/20/14 16:45	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/20/14 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/20/14 16:45	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/20/14 16:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/20/14 16:45	56-23-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW14 **Lab ID: 92226122010** Collected: 11/18/14 15:15 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	1.0	1		11/20/14 16:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/20/14 16:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/20/14 16:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/20/14 16:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/20/14 16:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/20/14 16:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/20/14 16:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/20/14 16:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 16:45	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/20/14 16:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/20/14 16:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/20/14 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/20/14 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/20/14 16:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/20/14 16:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/20/14 16:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/20/14 16:45	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/20/14 16:45	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/20/14 16:45	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/20/14 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/20/14 16:45	108-10-1	
Styrene	ND	ug/L	1.0	1		11/20/14 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 16:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/20/14 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/20/14 16:45	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/20/14 16:45	109-99-9	
Toluene	ND	ug/L	1.0	1		11/20/14 16:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/20/14 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/20/14 16:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/20/14 16:45	79-01-6	
Trichlorofluoromethane	**0.57J**	ug/L	1.0	1		11/20/14 16:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/20/14 16:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/20/14 16:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/20/14 16:45	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/20/14 16:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/20/14 16:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		11/20/14 16:45	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		11/20/14 16:45	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/20/14 16:45	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**42300**	ug/L	5000	1		11/26/14 18:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW14 **Lab ID: 92226122010** Collected: 11/18/14 15:15 Received: 11/19/14 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**119000**	ug/L	25000	1		11/24/14 18:20		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/20/14 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		12/03/14 01:03	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3720**	ug/L	1000	1		12/03/14 03:06	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 14:27	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW10 **Lab ID: 92226122011** Collected: 11/19/14 11:39 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.1**	Std. Units	0.10	1		11/19/14 11:39		
Field Temperature	**15.3**	deg C	0.50	1		11/19/14 11:39		
Static Water Level	**12.34**	feet		1		11/19/14 11:39		
Field Specific Conductance	**106**	umhos/cm	1.0	1		11/19/14 11:39		
Oxygen, Dissolved	**0**	mg/L		1		11/19/14 11:39	7782-44-7	
Total Well Depth	**21.0**	feet		1		11/19/14 11:39		
REDOX	**198**	mV		1		11/19/14 11:39		
Turbidity	**98**	NTU	1.0	1		11/19/14 11:39		
Odor	**NONE**			1		11/19/14 11:39		
Appearance	**VERY CLOUDY**			1		11/19/14 11:39		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:14	7440-38-2	
Barium	**262**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-39-3	
Beryllium	**1.4**	ug/L	1.0	1	11/21/14 17:00	11/24/14 14:14	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/21/14 17:00	11/24/14 14:14	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-48-4	
Copper	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-50-8	
Iron	**1160**	ug/L	50.0	1	11/21/14 17:00	11/24/14 14:14	7439-89-6	
Lead	**4.1J**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7439-92-1	
Manganese	**130**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:14	7782-49-2	
Silver	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-22-4	
Sodium	**6860**	ug/L	5000	1	11/21/14 17:00	11/24/14 14:14	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/21/14 17:00	11/24/14 14:14	7440-28-0	
Tin	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:14	7440-62-2	
Zinc	**6.2J**	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:14	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.33**	ug/L	0.20	1	11/21/14 10:45	11/21/14 14:28	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/21/14 20:20	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/21/14 20:20	107-13-1	
Benzene	**0.44J**	ug/L	1.0	1		11/21/14 20:20	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/21/14 20:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/21/14 20:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/21/14 20:20	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/21/14 20:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/21/14 20:20	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/21/14 20:20	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW10 **Lab ID: 92226122011** Collected: 11/19/14 11:39 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/L	1.0	1		11/21/14 20:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/21/14 20:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/21/14 20:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/21/14 20:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/21/14 20:20	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/21/14 20:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/21/14 20:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/21/14 20:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/21/14 20:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/21/14 20:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/21/14 20:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/21/14 20:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/21/14 20:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/21/14 20:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/21/14 20:20	75-35-4	
cis-1,2-Dichloroethene	**0.35J**	ug/L	1.0	1		11/21/14 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/14 20:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/21/14 20:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/14 20:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/14 20:20	10061-02-6	
Ethylbenzene	**0.73J**	ug/L	1.0	1		11/21/14 20:20	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/21/14 20:20	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/21/14 20:20	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/21/14 20:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.2J**	ug/L	5.0	1		11/21/14 20:20	108-10-1	
Styrene	ND	ug/L	1.0	1		11/21/14 20:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/14 20:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/14 20:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/21/14 20:20	127-18-4	
Tetrahydrofuran	**106**	ug/L	10.0	1		11/21/14 20:20	109-99-9	
Toluene	ND	ug/L	1.0	1		11/21/14 20:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/21/14 20:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/21/14 20:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/21/14 20:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/21/14 20:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/21/14 20:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/21/14 20:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/21/14 20:20	75-01-4	
m&p-Xylene	**1.1J**	ug/L	2.0	1		11/21/14 20:20	179601-23-1	
o-Xylene	**0.65J**	ug/L	1.0	1		11/21/14 20:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/21/14 20:20	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		11/21/14 20:20	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/21/14 20:20	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**42200**	ug/L	5000	1		12/01/14 14:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW10 **Lab ID: 92226122011** Collected: 11/19/14 11:39 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**86000**	ug/L	25000	1		11/25/14 18:05		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	**260**	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	2000	1		12/04/14 21:13	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**2220**	ug/L	1000	1		12/03/14 03:19	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 14:59	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW11 **Lab ID: 92226122012** Collected: 11/19/14 12:41 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.9**	Std. Units	0.10	1		11/19/14 12:41		
Field Temperature	**15.4**	deg C	0.50	1		11/19/14 12:41		
Static Water Level	**2.70**	feet		1		11/19/14 12:41		
Field Specific Conductance	**440**	umhos/cm	1.0	1		11/19/14 12:41		
Oxygen, Dissolved	**0.5**	mg/L		1		11/19/14 12:41	7782-44-7	
Total Well Depth	**20.0**	feet		1		11/19/14 12:41		
REDOX	**-61**	mV		1		11/19/14 12:41		
Turbidity	**9.9**	NTU	1.0	1		11/19/14 12:41		
Odor	**STAGNANT ODOR**			1		11/19/14 12:41		
Appearance	**SOLIDS FLOATING-BLACK ANTS**			1		11/19/14 12:41		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:17	7440-38-2	
Barium	**96.8**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/21/14 17:00	11/24/14 14:17	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/21/14 17:00	11/24/14 14:17	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-47-3	
Cobalt	**2.6J**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-48-4	
Copper	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-50-8	
Iron	**35700**	ug/L	50.0	1	11/21/14 17:00	11/24/14 14:17	7439-89-6	
Lead	**3.6J**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7439-92-1	
Manganese	**2030**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:17	7782-49-2	
Silver	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-22-4	
Sodium	**10000**	ug/L	5000	1	11/21/14 17:00	11/24/14 14:17	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/21/14 17:00	11/24/14 14:17	7440-28-0	
Tin	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-31-5	
Vanadium	**3.6J**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:17	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:17	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/21/14 10:45	11/21/14 14:30	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/21/14 20:36	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/21/14 20:36	107-13-1	
Benzene	ND	ug/L	1.0	1		11/21/14 20:36	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/21/14 20:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/21/14 20:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/21/14 20:36	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/21/14 20:36	74-83-9	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW11 **Lab ID: 92226122012** Collected: 11/19/14 12:41 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	5.0	1		11/21/14 20:36	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/21/14 20:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/21/14 20:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/21/14 20:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/21/14 20:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/21/14 20:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/21/14 20:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/21/14 20:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/21/14 20:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/21/14 20:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/21/14 20:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/21/14 20:36	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/21/14 20:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/21/14 20:36	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/21/14 20:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/21/14 20:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/21/14 20:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/14 20:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/14 20:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/21/14 20:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/14 20:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/14 20:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/21/14 20:36	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/21/14 20:36	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/21/14 20:36	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/21/14 20:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/21/14 20:36	108-10-1	
Styrene	ND	ug/L	1.0	1		11/21/14 20:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/14 20:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/14 20:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/21/14 20:36	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/21/14 20:36	109-99-9	
Toluene	ND	ug/L	1.0	1		11/21/14 20:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/21/14 20:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/21/14 20:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/21/14 20:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/21/14 20:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/21/14 20:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/21/14 20:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/21/14 20:36	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/21/14 20:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/21/14 20:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/21/14 20:36	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		11/21/14 20:36	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/21/14 20:36	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW11 **Lab ID: 92226122012** Collected: 11/19/14 12:41 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**143000**	ug/L	5000	1		12/01/14 14:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**228000**	ug/L	25000	1		11/25/14 18:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	**130**	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**12800**	ug/L	2000	1		12/04/14 21:26	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**15000**	ug/L	1000	1		12/03/14 03:19	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 15:00	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW12 **Lab ID: 92226122013** Collected: 11/19/14 13:20 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.9**	Std. Units	0.10	1		11/19/14 13:20		
Field Temperature	**15.4**	deg C	0.50	1		11/19/14 13:20		
Static Water Level	**5.38**	feet		1		11/19/14 13:20		
Field Specific Conductance	**203**	umhos/cm	1.0	1		11/19/14 13:20		
Oxygen, Dissolved	**0.5**	mg/L		1		11/19/14 13:20	7782-44-7	
Total Well Depth	**15.58**	feet		1		11/19/14 13:20		
REDOX	**101**	mV		1		11/19/14 13:20		
Turbidity	**5.2**	NTU	1.0	1		11/19/14 13:20		
Odor	**NONE**			1		11/19/14 13:20		
Appearance	**CLEAR**			1		11/19/14 13:20		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:20	7440-38-2	
Barium	**59.2**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/21/14 17:00	11/24/14 14:20	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/21/14 17:00	11/24/14 14:20	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-48-4	
Copper	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-50-8	
Iron	**758**	ug/L	50.0	1	11/21/14 17:00	11/24/14 14:20	7439-89-6	
Lead	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7439-92-1	
Manganese	**199**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7439-96-5	
Nickel	**4.1J**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:20	7782-49-2	
Silver	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-22-4	
Sodium	**12800**	ug/L	5000	1	11/21/14 17:00	11/24/14 14:20	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/21/14 17:00	11/24/14 14:20	7440-28-0	
Tin	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:20	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:20	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/21/14 10:45	11/21/14 14:33	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/21/14 21:07	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/21/14 21:07	107-13-1	
Benzene	ND	ug/L	1.0	1		11/21/14 21:07	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/21/14 21:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/21/14 21:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/21/14 21:07	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/21/14 21:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/21/14 21:07	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/21/14 21:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/21/14 21:07	56-23-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW12 **Lab ID: 92226122013** Collected: 11/19/14 13:20 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	1.0	1		11/21/14 21:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/21/14 21:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/21/14 21:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/21/14 21:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/21/14 21:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/21/14 21:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/21/14 21:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/21/14 21:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/21/14 21:07	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/21/14 21:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/21/14 21:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/21/14 21:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/21/14 21:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/21/14 21:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/14 21:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/14 21:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/21/14 21:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/14 21:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/14 21:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/21/14 21:07	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/21/14 21:07	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/21/14 21:07	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/21/14 21:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/21/14 21:07	108-10-1	
Styrene	ND	ug/L	1.0	1		11/21/14 21:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/14 21:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/14 21:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/21/14 21:07	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/21/14 21:07	109-99-9	
Toluene	ND	ug/L	1.0	1		11/21/14 21:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/21/14 21:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/21/14 21:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/21/14 21:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/21/14 21:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/21/14 21:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/21/14 21:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/21/14 21:07	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/21/14 21:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/21/14 21:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/21/14 21:07	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		11/21/14 21:07	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/21/14 21:07	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**40500**	ug/L	5000	1		12/01/14 15:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW12 **Lab ID: 92226122013** Collected: 11/19/14 13:20 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**135000**	ug/L	25000	1		11/25/14 18:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**32800**	ug/L	2000	1		12/04/14 21:40	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**8240**	ug/L	1000	1		12/03/14 03:39	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 15:01	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW13 **Lab ID: 92226122014** Collected: 11/19/14 14:25 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**5.6**	Std. Units	0.10	1		11/19/14 14:25		
Field Temperature	**13.8**	deg C	0.50	1		11/19/14 14:25		
Static Water Level	**9.24**	feet		1		11/19/14 14:25		
Field Specific Conductance	**120**	umhos/cm	1.0	1		11/19/14 14:25		
Oxygen, Dissolved	**0.5**	mg/L		1		11/19/14 14:25	7782-44-7	
Total Well Depth	**20**	feet		1		11/19/14 14:25		
REDOX	**232**	mV		1		11/19/14 14:25		
Turbidity	**152**	NTU	1.0	1		11/19/14 14:25		
Odor	**NONE**			1		11/19/14 14:25		
Appearance	**CLOUDY**			1		11/19/14 14:25		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:23	7440-38-2	
Barium	**130**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-39-3	
Beryllium	**1.2**	ug/L	1.0	1	11/21/14 17:00	11/24/14 14:23	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/21/14 17:00	11/24/14 14:23	7440-43-9	
Chromium	**3.0J**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-48-4	
Copper	**3.8J**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-50-8	
Iron	**2720**	ug/L	50.0	1	11/21/14 17:00	11/24/14 14:23	7439-89-6	
Lead	**5.4**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7439-92-1	
Manganese	**55.6**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:23	7782-49-2	
Silver	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-22-4	
Sodium	**10700**	ug/L	5000	1	11/21/14 17:00	11/24/14 14:23	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/21/14 17:00	11/24/14 14:23	7440-28-0	
Tin	ND	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-31-5	
Vanadium	**7.1**	ug/L	5.0	1	11/21/14 17:00	11/24/14 14:23	7440-62-2	
Zinc	**13.7**	ug/L	10.0	1	11/21/14 17:00	11/24/14 14:23	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/21/14 10:45	11/21/14 14:36	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/21/14 21:22	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/21/14 21:22	107-13-1	
Benzene	ND	ug/L	1.0	1		11/21/14 21:22	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/21/14 21:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/21/14 21:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/21/14 21:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/21/14 21:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/21/14 21:22	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/21/14 21:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/21/14 21:22	56-23-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW13 **Lab ID: 92226122014** Collected: 11/19/14 14:25 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	1.0	1		11/21/14 21:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/21/14 21:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/21/14 21:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/21/14 21:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/21/14 21:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/21/14 21:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/21/14 21:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/21/14 21:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/21/14 21:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/21/14 21:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/21/14 21:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/21/14 21:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/21/14 21:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/21/14 21:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/14 21:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/21/14 21:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/21/14 21:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/14 21:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/21/14 21:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/21/14 21:22	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/21/14 21:22	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/21/14 21:22	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/21/14 21:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/21/14 21:22	108-10-1	
Styrene	ND	ug/L	1.0	1		11/21/14 21:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/14 21:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/21/14 21:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/21/14 21:22	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/21/14 21:22	109-99-9	
Toluene	ND	ug/L	1.0	1		11/21/14 21:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/21/14 21:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/21/14 21:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/21/14 21:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/21/14 21:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/21/14 21:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/21/14 21:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/21/14 21:22	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/21/14 21:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/21/14 21:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/21/14 21:22	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/21/14 21:22	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/21/14 21:22	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**36200**	ug/L	5000	1		12/01/14 15:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW13 **Lab ID: 92226122014** Collected: 11/19/14 14:25 Received: 11/20/14 15:16 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**119000**	ug/L	25000	1		11/25/14 18:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	**151**	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**8660**	ug/L	2000	1		12/04/14 21:53	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5870**	ug/L	1000	1		12/03/14 03:41	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 15:02	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW15 **Lab ID: 92226122015** Collected: 11/20/14 10:55 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**6.2**	Std. Units	0.10	1		11/20/14 10:55		
Field Temperature	**16.7**	deg C	0.50	1		11/20/14 10:55		
Static Water Level	**39.5**	feet		1		11/20/14 10:55		
Field Specific Conductance	**647**	umhos/cm	1.0	1		11/20/14 10:55		
Oxygen, Dissolved	**1.25**	mg/L		1		11/20/14 10:55	7782-44-7	
Total Well Depth	**50.85**	feet		1		11/20/14 10:55		
REDOX	**182**	mV		1		11/20/14 10:55		
Turbidity	**20.1**	NTU	1.0	1		11/20/14 10:55		
Odor	**NONE**			1		11/20/14 10:55		
Appearance	**CLEAR**			1		11/20/14 10:55		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	319-84-6	
delta-BHC	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	33213-65-9	
Endrin	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:35	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	11/26/14 14:23	12/02/14 20:35	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	58	%	20-130	1	11/26/14 14:23	12/02/14 20:35	877-09-8	
Decachlorobiphenyl (S)	83	%	20-130	1	11/26/14 14:23	12/02/14 20:35	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	ND	ug/L	0.94	1	11/24/14 09:55	11/25/14 17:02	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	11/24/14 09:55	11/25/14 17:02	93-72-1	
Surrogates								
2,4-DCAA (S)	76	%	66-130	1	11/24/14 09:55	11/25/14 17:02	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:41	7440-38-2	
Barium	**41.5**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 17:41	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 17:41	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-48-4	
Copper	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-50-8	
Iron	**233**	ug/L	50.0	1	11/24/14 16:20	11/25/14 17:41	7439-89-6	
Lead	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7439-92-1	
Manganese	**33.0**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:41	7782-49-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW15 **Lab ID: 92226122015** Collected: 11/20/14 10:55 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Silver	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-22-4	
Sodium	**24000**	ug/L	5000	1	11/24/14 16:20	11/25/14 17:41	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/24/14 16:20	11/25/14 17:41	7440-28-0	
Tin	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:41	7440-62-2	
Zinc	**5.3J**	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:41	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/22/14 14:00	11/24/14 14:03	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	11/26/14 16:25	12/04/14 14:55	56-55-3	
Chrysene	ND	ug/L	10.0	1	11/26/14 16:25	12/04/14 14:55	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	11/26/14 16:25	12/04/14 14:55	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	34	%	21-110	1	11/26/14 16:25	12/04/14 14:55	4165-60-0	
2-Fluorobiphenyl (S)	36	%	27-110	1	11/26/14 16:25	12/04/14 14:55	321-60-8	
Terphenyl-d14 (S)	55	%	31-107	1	11/26/14 16:25	12/04/14 14:55	1718-51-0	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/25/14 13:47	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/25/14 13:47	107-13-1	
Benzene	ND	ug/L	1.0	1		11/25/14 13:47	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/25/14 13:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/25/14 13:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/25/14 13:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/25/14 13:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/25/14 13:47	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/25/14 13:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/25/14 13:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/25/14 13:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/25/14 13:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/25/14 13:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/14 13:47	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/25/14 13:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/25/14 13:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/25/14 13:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/25/14 13:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 13:47	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 13:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/25/14 13:47	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/25/14 13:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/25/14 13:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/25/14 13:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 13:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 13:47	156-60-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW15 **Lab ID: 92226122015** Collected: 11/20/14 10:55 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
1,2-Dichloropropane	ND	ug/L	1.0	1		11/25/14 13:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 13:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 13:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/25/14 13:47	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/25/14 13:47	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/25/14 13:47	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/25/14 13:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/25/14 13:47	108-10-1	
Styrene	ND	ug/L	1.0	1		11/25/14 13:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 13:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 13:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/25/14 13:47	127-18-4	
Tetrahydrofuran	**15.5**	ug/L	10.0	1		11/25/14 13:47	109-99-9	
Toluene	ND	ug/L	1.0	1		11/25/14 13:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/25/14 13:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/25/14 13:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/25/14 13:47	79-01-6	
Trichlorofluoromethane	**3.9**	ug/L	1.0	1		11/25/14 13:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/25/14 13:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/25/14 13:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/25/14 13:47	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/25/14 13:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/25/14 13:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		11/25/14 13:47	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		11/25/14 13:47	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/25/14 13:47	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**54700**	ug/L	5000	1		12/02/14 14:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**464000**	ug/L	25000	1		11/26/14 06:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**43800**	ug/L	4000	2		12/05/14 13:07	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**146000**	ug/L	10000	10		12/03/14 04:03	16887-00-6	M6
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 15:24	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW2R **Lab ID: 92226122016** Collected: 11/20/14 11:54 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**6.1**	Std. Units	0.10	1		11/20/14 15:30		
Field Temperature	**13.2**	deg C	0.50	1		11/20/14 15:30		
Static Water Level	**8.59**	feet		1		11/20/14 15:30		
Field Specific Conductance	**1150**	umhos/cm	1.0	1		11/20/14 15:30		
Oxygen, Dissolved	**0.5**	mg/L		1		11/20/14 15:30	7782-44-7	
Total Well Depth	**21**	feet		1		11/20/14 15:30		
REDOX	**38**	mV		1		11/20/14 15:30		
Turbidity	**3.53**	NTU	1.0	1		11/20/14 15:30		
Odor	**NONE**			1		11/20/14 15:30		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	319-84-6	
delta-BHC	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	33213-65-9	
Endrin	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	11/26/14 14:23	12/02/14 20:52	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	11/26/14 14:23	12/02/14 20:52	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	62	%	20-130	1	11/26/14 14:23	12/02/14 20:52	877-09-8	
Decachlorobiphenyl (S)	65	%	20-130	1	11/26/14 14:23	12/02/14 20:52	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	ND	ug/L	0.94	1	11/24/14 09:55	11/25/14 17:33	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	11/24/14 09:55	11/25/14 17:33	93-72-1	
Surrogates								
2,4-DCAA (S)	100	%	66-130	1	11/24/14 09:55	11/25/14 17:33	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:45	7440-38-2	
Barium	**339**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 17:45	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 17:45	7440-43-9	
Chromium	**3.4J**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-47-3	
Cobalt	**25.0**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-48-4	
Copper	**9.6**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-50-8	
Iron	**2580**	ug/L	50.0	1	11/24/14 16:20	11/25/14 17:45	7439-89-6	
Lead	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7439-92-1	
Manganese	**9880**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7439-96-5	
Nickel	**25.9**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:45	7782-49-2	
Silver	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-22-4	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW2R **Lab ID: 92226122016** Collected: 11/20/14 11:54 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Sodium	**58300**	ug/L	5000	1	11/24/14 16:20	11/25/14 17:45	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/24/14 16:20	11/25/14 17:45	7440-28-0	
Tin	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:45	7440-62-2	
Zinc	**16.8**	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/22/14 14:00	11/24/14 14:05	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	11/26/14 16:25	12/04/14 15:23	56-55-3	
Chrysene	ND	ug/L	10.0	1	11/26/14 16:25	12/04/14 15:23	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	11/26/14 16:25	12/04/14 15:23	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	51	%	21-110	1	11/26/14 16:25	12/04/14 15:23	4165-60-0	
2-Fluorobiphenyl (S)	51	%	27-110	1	11/26/14 16:25	12/04/14 15:23	321-60-8	
Terphenyl-d14 (S)	52	%	31-107	1	11/26/14 16:25	12/04/14 15:23	1718-51-0	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/25/14 14:03	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/25/14 14:03	107-13-1	
Benzene	**2.5**	ug/L	1.0	1		11/25/14 14:03	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/25/14 14:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/25/14 14:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/25/14 14:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/25/14 14:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/25/14 14:03	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/25/14 14:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/25/14 14:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/25/14 14:03	108-90-7	
Chloroethane	**2.1**	ug/L	1.0	1		11/25/14 14:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/25/14 14:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/14 14:03	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/25/14 14:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/25/14 14:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/25/14 14:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/25/14 14:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 14:03	95-50-1	
1,4-Dichlorobenzene	**0.40J**	ug/L	1.0	1		11/25/14 14:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/25/14 14:03	110-57-6	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		11/25/14 14:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/25/14 14:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:03	75-35-4	
cis-1,2-Dichloroethene	**0.50J**	ug/L	1.0	1		11/25/14 14:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/25/14 14:03	78-87-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-MW2R **Lab ID: 92226122016** Collected: 11/20/14 11:54 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 14:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 14:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/25/14 14:03	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/25/14 14:03	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/25/14 14:03	74-88-4	
Methylene Chloride	**3.7**	ug/L	1.0	1		11/25/14 14:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/25/14 14:03	108-10-1	
Styrene	ND	ug/L	1.0	1		11/25/14 14:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 14:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 14:03	79-34-5	
Tetrachloroethene	**2.0**	ug/L	1.0	1		11/25/14 14:03	127-18-4	
Tetrahydrofuran	**79.2**	ug/L	10.0	1		11/25/14 14:03	109-99-9	
Toluene	ND	ug/L	1.0	1		11/25/14 14:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/25/14 14:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/25/14 14:03	79-00-5	
Trichloroethene	**0.85J**	ug/L	1.0	1		11/25/14 14:03	79-01-6	
Trichlorofluoromethane	**2.4**	ug/L	1.0	1		11/25/14 14:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/25/14 14:03	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/25/14 14:03	108-05-4	
Vinyl chloride	**1.2**	ug/L	1.0	1		11/25/14 14:03	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/25/14 14:03	179601-23-1	
o-Xylene	**0.33J**	ug/L	1.0	1		11/25/14 14:03	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		11/25/14 14:03	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		11/25/14 14:03	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		11/25/14 14:03	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**453000**	ug/L	5000	1		12/02/14 14:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**769000**	ug/L	31200	1		11/26/14 06:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**117000**	ug/L	10000	5		12/05/14 13:20	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**49800**	ug/L	5000	5		12/03/14 04:07	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**4.2J**	ug/L	8.0	1		12/02/14 15:25	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW3 **Lab ID: 92226122017** Collected: 11/20/14 12:15 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**6.6**	Std. Units	0.10	1		11/20/14 12:15		
Field Temperature	**12.5**	deg C	0.50	1		11/20/14 12:15		
Field Specific Conductance	**885**	umhos/cm	1.0	1		11/20/14 12:15		
Oxygen, Dissolved	**4.5**	mg/L		1		11/20/14 12:15	7782-44-7	
REDOX	**-45**	mV		1		11/20/14 12:15		
Turbidity	**16.6**	NTU	1.0	1		11/20/14 12:15		
Odor	**NONE**			1		11/20/14 12:15		
Appearance	**CLOUDY/OIL SHEEN**			1		11/20/14 12:15		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:48	7440-38-2	
Barium	**206**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 17:48	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 17:48	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-47-3	
Cobalt	**3.4J**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-48-4	
Copper	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-50-8	
Iron	**5270**	ug/L	50.0	1	11/24/14 16:20	11/25/14 17:48	7439-89-6	
Lead	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7439-92-1	
Manganese	**5080**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7439-96-5	
Nickel	**4.8J**	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:48	7782-49-2	
Silver	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-22-4	
Sodium	**29900**	ug/L	5000	1	11/24/14 16:20	11/25/14 17:48	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/24/14 16:20	11/25/14 17:48	7440-28-0	
Tin	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 17:48	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 17:48	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/22/14 14:00	11/24/14 14:08	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/25/14 14:19	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/25/14 14:19	107-13-1	
Benzene	**0.54J**	ug/L	1.0	1		11/25/14 14:19	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/25/14 14:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/25/14 14:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/25/14 14:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/25/14 14:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/25/14 14:19	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/25/14 14:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/25/14 14:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/25/14 14:19	108-90-7	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW3 **Lab ID: 92226122017** Collected: 11/20/14 12:15 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		11/25/14 14:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/25/14 14:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/14 14:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/25/14 14:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/25/14 14:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/25/14 14:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/25/14 14:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 14:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 14:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/25/14 14:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/25/14 14:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/25/14 14:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/25/14 14:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 14:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 14:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/25/14 14:19	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/25/14 14:19	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/25/14 14:19	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/25/14 14:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/25/14 14:19	108-10-1	
Styrene	ND	ug/L	1.0	1		11/25/14 14:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 14:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 14:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/25/14 14:19	127-18-4	
Tetrahydrofuran	**10.2**	ug/L	10.0	1		11/25/14 14:19	109-99-9	
Toluene	ND	ug/L	1.0	1		11/25/14 14:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/25/14 14:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/25/14 14:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/25/14 14:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/25/14 14:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/25/14 14:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/25/14 14:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/25/14 14:19	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/25/14 14:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/25/14 14:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		11/25/14 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		11/25/14 14:19	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		11/25/14 14:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**389000**	ug/L	5000	1		12/02/14 15:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW3 **Lab ID: 92226122017** Collected: 11/20/14 12:15 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**473000**	ug/L	25000	1		11/26/14 06:28		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/24/14 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**16800**	ug/L	2000	1		12/10/14 03:59	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**27000**	ug/L	1000	1		12/03/14 04:07	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 15:26	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW2 **Lab ID: 92226122018** Collected: 11/20/14 12:55 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**6.3**	Std. Units	0.10	1		11/20/14 12:55		
Field Temperature	**11.2**	deg C	0.50	1		11/20/14 12:55		
Field Specific Conductance	**324**	umhos/cm	1.0	1		11/20/14 12:55		
Oxygen, Dissolved	**2.11**	mg/L		1		11/20/14 12:55	7782-44-7	
REDOX	**-36**	mV		1		11/20/14 12:55		
Turbidity	**136.9**	NTU	1.0	1		11/20/14 12:55		
Odor	**NONE**			1		11/20/14 12:55		
Appearance	**CLOUDY/OIL SHEEN**			1		11/20/14 12:55		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-36-0	
Arsenic	**6.2J**	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:00	7440-38-2	
Barium	**171**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-39-3	
Beryllium	**0.64J**	ug/L	1.0	1	11/24/14 16:20	11/25/14 18:00	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 18:00	7440-43-9	
Chromium	**3.2J**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-47-3	
Cobalt	**4.4J**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-48-4	
Copper	**3.2J**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-50-8	
Iron	**75000**	ug/L	50.0	1	11/24/14 16:20	11/25/14 18:00	7439-89-6	
Lead	**7.4**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7439-92-1	
Manganese	**1010**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7439-96-5	
Nickel	**3.1J**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:00	7782-49-2	
Silver	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-22-4	
Sodium	**17600**	ug/L	5000	1	11/24/14 16:20	11/25/14 18:00	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/24/14 16:20	11/25/14 18:00	7440-28-0	
Tin	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-31-5	
Vanadium	**11.6**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:00	7440-62-2	
Zinc	**28.0**	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/22/14 14:00	11/24/14 14:11	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/25/14 14:36	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/25/14 14:36	107-13-1	
Benzene	ND	ug/L	1.0	1		11/25/14 14:36	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/25/14 14:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/25/14 14:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/25/14 14:36	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/25/14 14:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/25/14 14:36	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/25/14 14:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/25/14 14:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/25/14 14:36	108-90-7	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW2 **Lab ID: 92226122018** Collected: 11/20/14 12:55 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		11/25/14 14:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/25/14 14:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/14 14:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/25/14 14:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/25/14 14:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/25/14 14:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/25/14 14:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 14:36	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 14:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/25/14 14:36	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/25/14 14:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/25/14 14:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/25/14 14:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 14:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 14:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/25/14 14:36	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/25/14 14:36	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/25/14 14:36	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/25/14 14:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/25/14 14:36	108-10-1	
Styrene	ND	ug/L	1.0	1		11/25/14 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 14:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 14:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/25/14 14:36	127-18-4	
Tetrahydrofuran	**18.4**	ug/L	10.0	1		11/25/14 14:36	109-99-9	
Toluene	ND	ug/L	1.0	1		11/25/14 14:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/25/14 14:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/25/14 14:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/25/14 14:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/25/14 14:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/25/14 14:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/25/14 14:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/25/14 14:36	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/25/14 14:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/25/14 14:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		11/25/14 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		11/25/14 14:36	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/25/14 14:36	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**2390J**	ug/L	5000	1		12/02/14 15:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW2 **Lab ID: 92226122018** Collected: 11/20/14 12:55 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**117000**	ug/L	25000	1		11/26/14 06:28		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	**142**	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**5620**	ug/L	2000	1		12/10/14 09:54	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**28200**	ug/L	1000	1		12/03/14 04:08	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 15:30	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW4 **Lab ID: 92226122019** Collected: 11/20/14 13:25 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**6.7**	Std. Units	0.10	1		11/20/14 13:25		
Field Temperature	**10.0**	deg C	0.50	1		11/20/14 13:25		
Field Specific Conductance	**344**	umhos/cm	1.0	1		11/20/14 13:25		
Oxygen, Dissolved	**8.18**	mg/L		1		11/20/14 13:25	7782-44-7	
REDOX	**27**	mV		1		11/20/14 13:25		
Turbidity	**28.3**	NTU	1.0	1		11/20/14 13:25		
Odor	**NONE**			1		11/20/14 13:25		
Appearance	**CLOUDY**			1		11/20/14 13:25		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:03	7440-38-2	
Barium	**82.8**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 18:03	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/24/14 16:20	11/25/14 18:03	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-48-4	
Copper	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-50-8	
Iron	**638**	ug/L	50.0	1	11/24/14 16:20	11/25/14 18:03	7439-89-6	
Lead	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7439-92-1	
Manganese	**739**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7439-96-5	
Nickel	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:03	7782-49-2	
Silver	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-22-4	
Sodium	**17800**	ug/L	5000	1	11/24/14 16:20	11/25/14 18:03	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/24/14 16:20	11/25/14 18:03	7440-28-0	
Tin	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-31-5	
Vanadium	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:03	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:03	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/22/14 14:00	11/24/14 14:13	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/25/14 14:52	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/25/14 14:52	107-13-1	
Benzene	ND	ug/L	1.0	1		11/25/14 14:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/25/14 14:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/25/14 14:52	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/25/14 14:52	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/25/14 14:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/25/14 14:52	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/25/14 14:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/25/14 14:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/25/14 14:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/25/14 14:52	75-00-3	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW4 **Lab ID: 92226122019** Collected: 11/20/14 13:25 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		11/25/14 14:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/14 14:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/25/14 14:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/25/14 14:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/25/14 14:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/25/14 14:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 14:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 14:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/25/14 14:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/25/14 14:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/25/14 14:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 14:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/25/14 14:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 14:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 14:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/25/14 14:52	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/25/14 14:52	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/25/14 14:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/25/14 14:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/25/14 14:52	108-10-1	
Styrene	ND	ug/L	1.0	1		11/25/14 14:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 14:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 14:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/25/14 14:52	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/25/14 14:52	109-99-9	
Toluene	ND	ug/L	1.0	1		11/25/14 14:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/25/14 14:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/25/14 14:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/25/14 14:52	79-01-6	
Trichlorofluoromethane	**0.27J**	ug/L	1.0	1		11/25/14 14:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/25/14 14:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/25/14 14:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/25/14 14:52	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/25/14 14:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/25/14 14:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		11/25/14 14:52	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		11/25/14 14:52	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/25/14 14:52	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**140000**	ug/L	5000	1		12/02/14 15:35		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW4 **Lab ID: 92226122019** Collected: 11/20/14 13:25 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**222000**	ug/L	25000	1		11/26/14 06:28		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**17600**	ug/L	2000	1		12/10/14 10:08	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**24300**	ug/L	1000	1		12/03/14 04:09	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 15:31	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW1 **Lab ID: 92226122020** Collected: 11/20/14 14:00 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Field pH	**6.1**	Std. Units	0.10	1		11/20/14 14:00		
Field Temperature	**10.8**	deg C	0.50	1		11/20/14 14:00		
Field Specific Conductance	**247**	umhos/cm	1.0	1		11/20/14 14:00		
Oxygen, Dissolved	**0.5**	mg/L		1		11/20/14 14:00	7782-44-7	
REDOX	**7**	mV		1		11/20/14 14:00		
Turbidity	**363.9**	NTU	1.0	1		11/20/14 14:00		
Odor	**NONE**			1		11/20/14 14:00		
Appearance	**OIL SHEEN/ CLOUDY**			1		11/20/14 14:00		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-36-0	
Arsenic	**5.9J**	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:07	7440-38-2	
Barium	**276**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-39-3	
Beryllium	**1.1**	ug/L	1.0	1	11/24/14 16:20	11/25/14 18:07	7440-41-7	
Cadmium	**0.70J**	ug/L	1.0	1	11/24/14 16:20	11/25/14 18:07	7440-43-9	
Chromium	**13.0**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-47-3	
Cobalt	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-48-4	
Copper	**16.4**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-50-8	
Iron	**155000**	ug/L	500	10	11/24/14 16:20	11/26/14 13:57	7439-89-6	
Lead	**18.3**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7439-92-1	
Manganese	**1760**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7439-96-5	
Nickel	**8.7**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-02-0	
Selenium	**7.0J**	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:07	7782-49-2	
Silver	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-22-4	
Sodium	**12500**	ug/L	5000	1	11/24/14 16:20	11/25/14 18:07	7440-23-5	
Thallium	ND	ug/L	5.4	1	11/24/14 16:20	11/25/14 18:07	7440-28-0	
Tin	ND	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-31-5	
Vanadium	**37.0**	ug/L	5.0	1	11/24/14 16:20	11/25/14 18:07	7440-62-2	
Zinc	**69.8**	ug/L	10.0	1	11/24/14 16:20	11/25/14 18:07	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/22/14 14:00	11/24/14 14:16	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		11/25/14 15:08	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		11/25/14 15:08	107-13-1	
Benzene	ND	ug/L	1.0	1		11/25/14 15:08	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		11/25/14 15:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/25/14 15:08	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/25/14 15:08	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/25/14 15:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/25/14 15:08	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		11/25/14 15:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/25/14 15:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/25/14 15:08	108-90-7	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW1 **Lab ID: 92226122020** Collected: 11/20/14 14:00 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		11/25/14 15:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/25/14 15:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/25/14 15:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/25/14 15:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/25/14 15:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/25/14 15:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/25/14 15:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 15:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/25/14 15:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		11/25/14 15:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/25/14 15:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/25/14 15:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/25/14 15:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 15:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/25/14 15:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/25/14 15:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 15:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/25/14 15:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/25/14 15:08	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		11/25/14 15:08	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/25/14 15:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		11/25/14 15:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/25/14 15:08	108-10-1	
Styrene	ND	ug/L	1.0	1		11/25/14 15:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 15:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/25/14 15:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/25/14 15:08	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		11/25/14 15:08	109-99-9	
Toluene	ND	ug/L	1.0	1		11/25/14 15:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/25/14 15:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/25/14 15:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/25/14 15:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/25/14 15:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/25/14 15:08	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/25/14 15:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/25/14 15:08	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/25/14 15:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/25/14 15:08	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		11/25/14 15:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		11/25/14 15:08	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/25/14 15:08	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**63700**	ug/L	5000	1		12/02/14 15:46		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92226122

Sample: 3412-SW1 **Lab ID: 92226122020** Collected: 11/20/14 14:00 Received: 11/21/14 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**122000**	ug/L	25000	1		11/26/14 06:28		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		11/24/14 14:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**3130**	ug/L	2000	1		12/10/14 10:21	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**19500**	ug/L	1000	1		12/03/14 04:10	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		12/02/14 15:32	57-12-5	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MERP/7328 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92226122001, 92226122002, 92226122005, 92226122006, 92226122007, 92226122008

METHOD BLANK: 1334681 Matrix: Water
Associated Lab Samples: 92226122001, 92226122002, 92226122005, 92226122006, 92226122007, 92226122008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/20/14 14:35	

LABORATORY CONTROL SAMPLE: 1334682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334683 1334684

Parameter	Units	92226122001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.1	2.1	85	83	75-125	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MERP/7332 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92226122009, 92226122010, 92226122011, 92226122012, 92226122013, 92226122014

METHOD BLANK: 1335577 Matrix: Water
Associated Lab Samples: 92226122009, 92226122010, 92226122011, 92226122012, 92226122013, 92226122014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/21/14 13:32	

LABORATORY CONTROL SAMPLE: 1335578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335579 1335580

Parameter	Units	92226122009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	98	98	75-125	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MERP/7338 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1336690 Matrix: Water
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/24/14 13:58	

LABORATORY CONTROL SAMPLE: 1336691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.0	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336692 1336693

Parameter	Units	92226660007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	1.8	1.8	70	70	75-125	0	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MPRP/17392 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92226122001, 92226122002, 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

METHOD BLANK: 1335048 | Matrix: Water
Associated Lab Samples: 92226122001, 92226122002, 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/21/14 03:46	
Arsenic	ug/L	ND	10.0	11/21/14 03:46	
Barium	ug/L	ND	5.0	11/21/14 03:46	
Beryllium	ug/L	ND	1.0	11/21/14 03:46	
Cadmium	ug/L	ND	1.0	11/21/14 03:46	
Chromium	ug/L	ND	5.0	11/21/14 03:46	
Cobalt	ug/L	ND	5.0	11/21/14 03:46	
Copper	ug/L	ND	5.0	11/21/14 03:46	
Iron	ug/L	ND	50.0	11/21/14 03:46	
Lead	ug/L	ND	5.0	11/21/14 03:46	
Manganese	ug/L	ND	5.0	11/21/14 03:46	
Nickel	ug/L	ND	5.0	11/21/14 03:46	
Selenium	ug/L	ND	10.0	11/21/14 03:46	
Silver	ug/L	ND	5.0	11/21/14 03:46	
Sodium	ug/L	ND	5000	11/21/14 03:46	
Thallium	ug/L	ND	5.4	11/21/14 03:46	
Tin	ug/L	ND	5.0	11/21/14 03:46	
Vanadium	ug/L	ND	5.0	11/21/14 03:46	
Zinc	ug/L	ND	10.0	11/21/14 03:46	

LABORATORY CONTROL SAMPLE: 1335049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	485	97	80-120	
Arsenic	ug/L	500	476	95	80-120	
Barium	ug/L	500	491	98	80-120	
Beryllium	ug/L	500	488	98	80-120	
Cadmium	ug/L	500	494	99	80-120	
Chromium	ug/L	500	467	93	80-120	
Cobalt	ug/L	500	467	93	80-120	
Copper	ug/L	500	497	99	80-120	
Iron	ug/L	5000	4950	99	80-120	
Lead	ug/L	500	472	94	80-120	
Manganese	ug/L	500	478	96	80-120	
Nickel	ug/L	500	487	97	80-120	
Selenium	ug/L	500	487	97	80-120	
Silver	ug/L	250	247	99	80-120	
Sodium	ug/L	5000	4920J	98	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

LABORATORY CONTROL SAMPLE: 1335049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	500	470	94	80-120	
Tin	ug/L	500	478	96	80-120	
Vanadium	ug/L	500	479	96	80-120	
Zinc	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335050 1335051

Parameter	Units	92224762008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	479	479	96	96	75-125	0	
Arsenic	ug/L	ND	500	500	470	474	94	94	75-125	1	
Barium	ug/L	39.5	500	500	528	522	98	97	75-125	1	
Beryllium	ug/L	ND	500	500	490	486	98	97	75-125	1	
Cadmium	ug/L	ND	500	500	484	487	97	97	75-125	1	
Chromium	ug/L	2.8J	500	500	468	465	93	92	75-125	1	
Cobalt	ug/L	ND	500	500	454	455	91	91	75-125	0	
Copper	ug/L	3.3J	500	500	488	488	97	97	75-125	0	
Iron	ug/L	1550	5000	5000	6600	6440	101	98	75-125	3	
Lead	ug/L	ND	500	500	459	458	91	91	75-125	0	
Manganese	ug/L	32.8	500	500	506	503	95	94	75-125	0	
Nickel	ug/L	ND	500	500	474	475	95	95	75-125	0	
Selenium	ug/L	ND	500	500	476	478	95	96	75-125	0	
Silver	ug/L	ND	250	250	240	241	96	96	75-125	0	
Sodium	ug/L	15400	5000	5000	20400	20200	99	96	75-125	1	
Thallium	ug/L	ND	500	500	459	458	92	92	75-125	0	
Tin	ug/L	ND	500	500	468	469	94	94	75-125	0	
Vanadium	ug/L	3.5J	500	500	484	484	96	96	75-125	0	
Zinc	ug/L	6.0J	500	500	468	467	92	92	75-125	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MPRP/17410 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

METHOD BLANK: 1336222 Matrix: Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/24/14 13:46	
Arsenic	ug/L	ND	10.0	11/24/14 13:46	
Barium	ug/L	ND	5.0	11/24/14 13:46	
Beryllium	ug/L	ND	1.0	11/24/14 13:46	
Cadmium	ug/L	ND	1.0	11/24/14 13:46	
Chromium	ug/L	ND	5.0	11/24/14 13:46	
Cobalt	ug/L	ND	5.0	11/24/14 13:46	
Copper	ug/L	ND	5.0	11/24/14 13:46	
Iron	ug/L	ND	50.0	11/24/14 13:46	
Lead	ug/L	ND	5.0	11/24/14 13:46	
Manganese	ug/L	ND	5.0	11/24/14 13:46	
Nickel	ug/L	ND	5.0	11/24/14 13:46	
Selenium	ug/L	ND	10.0	11/24/14 13:46	
Silver	ug/L	ND	5.0	11/24/14 13:46	
Sodium	ug/L	ND	5000	11/24/14 13:46	
Thallium	ug/L	ND	5.4	11/24/14 13:46	
Tin	ug/L	ND	5.0	11/24/14 13:46	
Vanadium	ug/L	ND	5.0	11/24/14 13:46	
Zinc	ug/L	ND	10.0	11/24/14 13:46	

LABORATORY CONTROL SAMPLE: 1336223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	515	103	80-120	
Arsenic	ug/L	500	495	99	80-120	
Barium	ug/L	500	490	98	80-120	
Beryllium	ug/L	500	489	98	80-120	
Cadmium	ug/L	500	506	101	80-120	
Chromium	ug/L	500	474	95	80-120	
Cobalt	ug/L	500	491	98	80-120	
Copper	ug/L	500	518	104	80-120	
Iron	ug/L	5000	4910	98	80-120	
Lead	ug/L	500	490	98	80-120	
Manganese	ug/L	500	480	96	80-120	
Nickel	ug/L	500	497	99	80-120	
Selenium	ug/L	500	506	101	80-120	
Silver	ug/L	250	251	100	80-120	
Sodium	ug/L	5000	5060	101	80-120	
Thallium	ug/L	500	497	99	80-120	
Tin	ug/L	500	494	99	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

LABORATORY CONTROL SAMPLE: 1336223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	ug/L	500	486	97	80-120	
Zinc	ug/L	500	470	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336224 1336225

Parameter	Units	92226490001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	514	511	103	102	75-125	1	
Arsenic	ug/L	ND	500	500	498	496	100	99	75-125	0	
Barium	ug/L	26.0	500	500	519	514	99	98	75-125	1	
Beryllium	ug/L	ND	500	500	500	496	100	99	75-125	1	
Cadmium	ug/L	ND	500	500	504	499	101	100	75-125	1	
Chromium	ug/L	ND	500	500	481	477	96	95	75-125	1	
Cobalt	ug/L	ND	500	500	493	490	99	98	75-125	1	
Copper	ug/L	ND	500	500	514	513	103	102	75-125	0	
Iron	ug/L	284	5000	5000	5240	5170	99	98	75-125	1	
Lead	ug/L	ND	500	500	490	491	98	98	75-125	0	
Manganese	ug/L	13.2	500	500	494	489	96	95	75-125	1	
Nickel	ug/L	4.3J	500	500	497	494	99	98	75-125	1	
Selenium	ug/L	ND	500	500	508	508	101	101	75-125	0	
Silver	ug/L	ND	250	250	250	249	100	100	75-125	1	
Sodium	ug/L	4920J	5000	5000	9890	9790	99	97	75-125	1	
Thallium	ug/L	ND	500	500	491	494	98	99	75-125	1	
Tin	ug/L	ND	500	500	496	494	99	99	75-125	0	
Vanadium	ug/L	ND	500	500	491	491	98	98	75-125	0	
Zinc	ug/L	6.3J	500	500	479	475	94	94	75-125	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MPRP/17416 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1337205 Matrix: Water
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/25/14 17:35	
Arsenic	ug/L	ND	10.0	11/25/14 17:35	
Barium	ug/L	ND	5.0	11/25/14 17:35	
Beryllium	ug/L	ND	1.0	11/25/14 17:35	
Cadmium	ug/L	ND	1.0	11/25/14 17:35	
Chromium	ug/L	ND	5.0	11/25/14 17:35	
Cobalt	ug/L	ND	5.0	11/25/14 17:35	
Copper	ug/L	ND	5.0	11/25/14 17:35	
Iron	ug/L	ND	50.0	11/25/14 17:35	
Lead	ug/L	ND	5.0	11/25/14 17:35	
Manganese	ug/L	ND	5.0	11/25/14 17:35	
Nickel	ug/L	ND	5.0	11/25/14 17:35	
Selenium	ug/L	ND	10.0	11/25/14 17:35	
Silver	ug/L	ND	5.0	11/25/14 17:35	
Sodium	ug/L	ND	5000	11/25/14 17:35	
Thallium	ug/L	ND	5.4	11/25/14 17:35	
Tin	ug/L	ND	5.0	11/25/14 17:35	
Vanadium	ug/L	ND	5.0	11/25/14 17:35	
Zinc	ug/L	ND	10.0	11/25/14 17:35	

LABORATORY CONTROL SAMPLE: 1337206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	490	98	80-120	
Arsenic	ug/L	500	483	97	80-120	
Barium	ug/L	500	484	97	80-120	
Beryllium	ug/L	500	486	97	80-120	
Cadmium	ug/L	500	489	98	80-120	
Chromium	ug/L	500	481	96	80-120	
Cobalt	ug/L	500	484	97	80-120	
Copper	ug/L	500	492	98	80-120	
Iron	ug/L	5000	4750	95	80-120	
Lead	ug/L	500	490	98	80-120	
Manganese	ug/L	500	480	96	80-120	
Nickel	ug/L	500	489	98	80-120	
Selenium	ug/L	500	497	99	80-120	
Silver	ug/L	250	238	95	80-120	
Sodium	ug/L	5000	4890J	98	80-120	
Thallium	ug/L	500	479	96	80-120	
Tin	ug/L	500	478	96	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

LABORATORY CONTROL SAMPLE: 1337206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	ug/L	500	481	96	80-120	
Zinc	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337207 1337208

Parameter	Units	92226660007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	472	474	94	95	75-125	1	
Arsenic	ug/L	ND	500	500	470	471	94	94	75-125	0	
Barium	ug/L	116	500	500	586	597	94	96	75-125	2	
Beryllium	ug/L	ND	500	500	481	485	96	97	75-125	1	
Cadmium	ug/L	ND	500	500	475	477	95	95	75-125	0	
Chromium	ug/L	ND	500	500	472	476	94	95	75-125	1	
Cobalt	ug/L	13.5	500	500	479	480	93	93	75-125	0	
Copper	ug/L	ND	500	500	475	480	95	96	75-125	1	
Iron	ug/L	10200	5000	5000	14600	14900	89	94	75-125	2	
Lead	ug/L	ND	500	500	468	469	93	94	75-125	0	
Manganese	ug/L	5780	500	500	6090	6210	63	88	75-125	2	M1
Nickel	ug/L	9.0	500	500	478	480	94	94	75-125	1	
Selenium	ug/L	ND	500	500	479	481	96	96	75-125	1	
Silver	ug/L	ND	250	250	232	232	92	93	75-125	0	
Sodium	ug/L	26400	5000	5000	30600	31300	84	98	75-125	2	
Thallium	ug/L	ND	500	500	458	460	91	92	75-125	0	
Tin	ug/L	ND	500	500	465	466	93	93	75-125	0	
Vanadium	ug/L	ND	500	500	480	482	96	96	75-125	0	
Zinc	ug/L	ND	500	500	466	468	93	93	75-125	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MSV/29314 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92226122001, 92226122002, 92226122003, 92226122004

METHOD BLANK: 1333567 Matrix: Water
Associated Lab Samples: 92226122001, 92226122002, 92226122003, 92226122004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/19/14 15:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/19/14 15:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/19/14 15:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/19/14 15:13	
1,1-Dichloroethane	ug/L	ND	1.0	11/19/14 15:13	
1,1-Dichloroethene	ug/L	ND	1.0	11/19/14 15:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/19/14 15:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/19/14 15:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/19/14 15:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/19/14 15:13	
1,2-Dichloroethane	ug/L	ND	1.0	11/19/14 15:13	
1,2-Dichloropropane	ug/L	ND	1.0	11/19/14 15:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/19/14 15:13	
2-Butanone (MEK)	ug/L	ND	5.0	11/19/14 15:13	
2-Hexanone	ug/L	ND	5.0	11/19/14 15:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/19/14 15:13	
Acetone	ug/L	ND	25.0	11/19/14 15:13	
Acrylonitrile	ug/L	ND	10.0	11/19/14 15:13	
Benzene	ug/L	ND	1.0	11/19/14 15:13	
Bromochloromethane	ug/L	ND	1.0	11/19/14 15:13	
Bromodichloromethane	ug/L	ND	1.0	11/19/14 15:13	
Bromoform	ug/L	ND	1.0	11/19/14 15:13	
Bromomethane	ug/L	ND	2.0	11/19/14 15:13	
Carbon disulfide	ug/L	ND	2.0	11/19/14 15:13	
Carbon tetrachloride	ug/L	ND	1.0	11/19/14 15:13	
Chlorobenzene	ug/L	ND	1.0	11/19/14 15:13	
Chloroethane	ug/L	ND	1.0	11/19/14 15:13	
Chloroform	ug/L	ND	1.0	11/19/14 15:13	
Chloromethane	ug/L	ND	1.0	11/19/14 15:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/19/14 15:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/19/14 15:13	
Dibromochloromethane	ug/L	ND	1.0	11/19/14 15:13	
Dibromomethane	ug/L	ND	1.0	11/19/14 15:13	
Ethylbenzene	ug/L	ND	1.0	11/19/14 15:13	
Iodomethane	ug/L	ND	5.0	11/19/14 15:13	
m&p-Xylene	ug/L	ND	2.0	11/19/14 15:13	
Methylene Chloride	ug/L	ND	1.0	11/19/14 15:13	
o-Xylene	ug/L	ND	1.0	11/19/14 15:13	
Styrene	ug/L	ND	1.0	11/19/14 15:13	
Tetrachloroethene	ug/L	ND	1.0	11/19/14 15:13	
Tetrahydrofuran	ug/L	ND	10.0	11/19/14 15:13	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

METHOD BLANK: 1333567 Matrix: Water
Associated Lab Samples: 92226122001, 92226122002, 92226122003, 92226122004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	11/19/14 15:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/19/14 15:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/19/14 15:13	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	11/19/14 15:13	
Trichloroethene	ug/L	ND	1.0	11/19/14 15:13	
Trichlorofluoromethane	ug/L	ND	1.0	11/19/14 15:13	
Vinyl acetate	ug/L	ND	2.0	11/19/14 15:13	
Vinyl chloride	ug/L	ND	1.0	11/19/14 15:13	
1,2-Dichloroethane-d4 (S)	%	112	70-130	11/19/14 15:13	
4-Bromofluorobenzene (S)	%	106	70-130	11/19/14 15:13	
Toluene-d8 (S)	%	99	70-130	11/19/14 15:13	

LABORATORY CONTROL SAMPLE: 1333568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.4	111	80-125	
1,1,1-Trichloroethane	ug/L	50	56.0	112	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	79-124	
1,1,2-Trichloroethane	ug/L	50	51.8	104	85-125	
1,1-Dichloroethane	ug/L	50	51.0	102	73-126	
1,1-Dichloroethene	ug/L	50	53.3	107	66-135	
1,2,3-Trichloropropane	ug/L	50	57.8	116	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.7	109	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	83-124	
1,2-Dichlorobenzene	ug/L	50	49.9	100	80-133	
1,2-Dichloroethane	ug/L	50	53.1	106	67-128	
1,2-Dichloropropane	ug/L	50	50.8	102	75-132	
1,4-Dichlorobenzene	ug/L	50	50.5	101	78-130	
2-Butanone (MEK)	ug/L	100	111	111	61-144	
2-Hexanone	ug/L	100	127	127	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	121	121	72-135	
Acetone	ug/L	100	105	105	48-146	
Acrylonitrile	ug/L	250	260	104	40-160	
Benzene	ug/L	50	49.6	99	80-125	
Bromochloromethane	ug/L	50	51.9	104	71-125	
Bromodichloromethane	ug/L	50	52.2	104	78-124	
Bromoform	ug/L	50	49.8	100	71-128	
Bromomethane	ug/L	50	47.9	96	40-160	
Carbon disulfide	ug/L	50	52.9	106	50-160	
Carbon tetrachloride	ug/L	50	62.9	126	69-131	
Chlorobenzene	ug/L	50	50.4	101	81-122	
Chloroethane	ug/L	50	49.0	98	39-148	
Chloroform	ug/L	50	49.2	98	73-127	
Chloromethane	ug/L	50	46.3	93	44-146	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

LABORATORY CONTROL SAMPLE: 1333568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	52.9	106	74-124	
cis-1,3-Dichloropropene	ug/L	50	56.3	113	72-132	
Dibromochloromethane	ug/L	50	48.6	97	78-125	
Dibromomethane	ug/L	50	55.3	111	82-120	
Ethylbenzene	ug/L	50	51.6	103	79-121	
Iodomethane	ug/L	100	89.7	90	39-154	
m&p-Xylene	ug/L	100	105	105	81-124	
Methylene Chloride	ug/L	50	51.5	103	64-133	
o-Xylene	ug/L	50	51.2	102	79-131	
Styrene	ug/L	50	53.6	107	84-126	
Tetrachloroethene	ug/L	50	52.6	105	78-122	
Tetrahydrofuran	ug/L	500	577	115	69-148	
Toluene	ug/L	50	50.4	101	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.8	102	71-127	
trans-1,3-Dichloropropene	ug/L	50	54.9	110	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	63.8	128	40-160	
Trichloroethene	ug/L	50	49.5	99	78-122	
Trichlorofluoromethane	ug/L	50	51.2	102	53-137	
Vinyl acetate	ug/L	100	100	100	40-160	
Vinyl chloride	ug/L	50	51.1	102	58-137	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1334549

Parameter	Units	92226122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	25.4	127	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	27.0	135	70-130	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.3	107	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.0	110	70-130	
1,1-Dichloroethane	ug/L	ND	20	24.5	123	70-130	
1,1-Dichloroethene	ug/L	ND	20	26.6	133	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	23.2	116	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.4	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	23.1	116	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.9	114	70-130	
1,2-Dichloroethane	ug/L	ND	20	23.3	116	70-130	
1,2-Dichloropropane	ug/L	ND	20	23.3	117	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	24.0	120	70-130	
2-Butanone (MEK)	ug/L	ND	40	40.9	102	70-130	
2-Hexanone	ug/L	ND	40	45.5	114	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	45.6	114	70-130	
Acetone	ug/L	ND	40	41.3	103	70-130	
Acrylonitrile	ug/L	ND	100	105	105	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

MATRIX SPIKE SAMPLE: 1334549

Parameter	Units	92226122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	24.2	121	70-148	
Bromochloromethane	ug/L	ND	20	23.6	118	70-130	
Bromodichloromethane	ug/L	ND	20	23.0	115	70-130	
Bromoform	ug/L	ND	20	20.6	103	70-130	
Bromomethane	ug/L	ND	20	26.1	131	70-130	M0
Carbon disulfide	ug/L	ND	20	26.8	134	70-130	M0
Carbon tetrachloride	ug/L	ND	20	29.8	149	70-130	M0
Chlorobenzene	ug/L	ND	20	24.1	120	70-146	
Chloroethane	ug/L	ND	20	26.7	133	70-130	M0
Chloroform	ug/L	ND	20	22.9	115	70-130	
Chloromethane	ug/L	ND	20	23.2	116	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	24.9	125	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	24.4	122	70-130	
Dibromochloromethane	ug/L	ND	20	21.5	107	70-130	
Dibromomethane	ug/L	ND	20	23.9	119	70-130	
Ethylbenzene	ug/L	ND	20	25.1	125	70-130	
Iodomethane	ug/L	ND	40	47.4	119	70-130	
m&p-Xylene	ug/L	ND	40	50.6	127	70-130	
Methylene Chloride	ug/L	ND	20	24.0	119	70-130	
o-Xylene	ug/L	ND	20	24.5	122	70-130	
Styrene	ug/L	ND	20	25.0	125	70-130	
Tetrachloroethene	ug/L	ND	20	26.5	133	70-130	M0
Tetrahydrofuran	ug/L	ND	200	217	109	70-130	
Toluene	ug/L	ND	20	23.9	120	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	24.9	124	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	23.5	118	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	22.5	112	70-130	
Trichloroethene	ug/L	ND	20	24.1	121	69-151	
Trichlorofluoromethane	ug/L	ND	20	26.4	132	70-130	M0
Vinyl acetate	ug/L	ND	40	41.0	103	70-130	
Vinyl chloride	ug/L	ND	20	25.9	129	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1334550

Parameter	Units	92226122002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	1.3	1.4	1	
1,1-Dichloroethene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

SAMPLE DUPLICATE: 1334550

Parameter	Units	92226122002 Result	Dup Result	RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Acrylonitrile	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon disulfide	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	0.73J	0.79J		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Iodomethane	ug/L	ND	ND		
m&p-Xylene	ug/L	1.1J	1.1J		
Methylene Chloride	ug/L	2.9	3.0	2	
o-Xylene	ug/L	0.36J	0.36J		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	0.46J		
Tetrahydrofuran	ug/L	8.8J	8.8J		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	1.2	1.2	1	
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	116	116	0	
4-Bromofluorobenzene (S)	%	106	107	0	
Toluene-d8 (S)	%	98	97	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MSV/29331 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

METHOD BLANK: 1334817 Matrix: Water
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/20/14 14:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/20/14 14:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/20/14 14:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/20/14 14:40	
1,1-Dichloroethane	ug/L	ND	1.0	11/20/14 14:40	
1,1-Dichloroethene	ug/L	ND	1.0	11/20/14 14:40	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/20/14 14:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/20/14 14:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/20/14 14:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/20/14 14:40	
1,2-Dichloroethane	ug/L	ND	1.0	11/20/14 14:40	
1,2-Dichloropropane	ug/L	ND	1.0	11/20/14 14:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/20/14 14:40	
2-Butanone (MEK)	ug/L	ND	5.0	11/20/14 14:40	
2-Hexanone	ug/L	ND	5.0	11/20/14 14:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/20/14 14:40	
Acetone	ug/L	ND	25.0	11/20/14 14:40	
Acrylonitrile	ug/L	ND	10.0	11/20/14 14:40	
Benzene	ug/L	ND	1.0	11/20/14 14:40	
Bromochloromethane	ug/L	ND	1.0	11/20/14 14:40	
Bromodichloromethane	ug/L	ND	1.0	11/20/14 14:40	
Bromoform	ug/L	ND	1.0	11/20/14 14:40	
Bromomethane	ug/L	ND	2.0	11/20/14 14:40	
Carbon disulfide	ug/L	ND	2.0	11/20/14 14:40	
Carbon tetrachloride	ug/L	ND	1.0	11/20/14 14:40	
Chlorobenzene	ug/L	ND	1.0	11/20/14 14:40	
Chloroethane	ug/L	ND	1.0	11/20/14 14:40	
Chloroform	ug/L	ND	1.0	11/20/14 14:40	
Chloromethane	ug/L	ND	1.0	11/20/14 14:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/20/14 14:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/20/14 14:40	
Dibromochloromethane	ug/L	ND	1.0	11/20/14 14:40	
Dibromomethane	ug/L	ND	1.0	11/20/14 14:40	
Ethylbenzene	ug/L	ND	1.0	11/20/14 14:40	
Iodomethane	ug/L	ND	5.0	11/20/14 14:40	
m&p-Xylene	ug/L	ND	2.0	11/20/14 14:40	
Methylene Chloride	ug/L	ND	1.0	11/20/14 14:40	
o-Xylene	ug/L	ND	1.0	11/20/14 14:40	
Styrene	ug/L	ND	1.0	11/20/14 14:40	
Tetrachloroethene	ug/L	ND	1.0	11/20/14 14:40	
Tetrahydrofuran	ug/L	ND	10.0	11/20/14 14:40	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

METHOD BLANK: 1334817 Matrix: Water
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	11/20/14 14:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/20/14 14:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/20/14 14:40	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	11/20/14 14:40	
Trichloroethene	ug/L	ND	1.0	11/20/14 14:40	
Trichlorofluoromethane	ug/L	ND	1.0	11/20/14 14:40	
Vinyl acetate	ug/L	ND	2.0	11/20/14 14:40	
Vinyl chloride	ug/L	ND	1.0	11/20/14 14:40	
1,2-Dichloroethane-d4 (S)	%	108	70-130	11/20/14 14:40	
4-Bromofluorobenzene (S)	%	103	70-130	11/20/14 14:40	
Toluene-d8 (S)	%	98	70-130	11/20/14 14:40	

LABORATORY CONTROL SAMPLE: 1334818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.0	112	80-125	
1,1,1-Trichloroethane	ug/L	50	57.5	115	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	79-124	
1,1,2-Trichloroethane	ug/L	50	51.7	103	85-125	
1,1-Dichloroethane	ug/L	50	52.5	105	73-126	
1,1-Dichloroethene	ug/L	50	56.8	114	66-135	
1,2,3-Trichloropropane	ug/L	50	56.0	112	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.7	109	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	53.7	107	83-124	
1,2-Dichlorobenzene	ug/L	50	49.4	99	80-133	
1,2-Dichloroethane	ug/L	50	54.1	108	67-128	
1,2-Dichloropropane	ug/L	50	51.1	102	75-132	
1,4-Dichlorobenzene	ug/L	50	49.9	100	78-130	
2-Butanone (MEK)	ug/L	100	110	110	61-144	
2-Hexanone	ug/L	100	125	125	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	123	123	72-135	
Acetone	ug/L	100	106	106	48-146	
Acrylonitrile	ug/L	250	260	104	40-160	
Benzene	ug/L	50	50.7	101	80-125	
Bromochloromethane	ug/L	50	52.5	105	71-125	
Bromodichloromethane	ug/L	50	54.5	109	78-124	
Bromoform	ug/L	50	52.1	104	71-128	
Bromomethane	ug/L	50	44.5	89	40-160	
Carbon disulfide	ug/L	50	56.3	113	50-160	
Carbon tetrachloride	ug/L	50	66.5	133	69-131	L3
Chlorobenzene	ug/L	50	50.4	101	81-122	
Chloroethane	ug/L	50	50.3	101	39-148	
Chloroform	ug/L	50	50.2	100	73-127	
Chloromethane	ug/L	50	47.5	95	44-146	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

LABORATORY CONTROL SAMPLE: 1334818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.8	108	74-124	
cis-1,3-Dichloropropene	ug/L	50	57.9	116	72-132	
Dibromochloromethane	ug/L	50	50.5	101	78-125	
Dibromomethane	ug/L	50	56.5	113	82-120	
Ethylbenzene	ug/L	50	51.4	103	79-121	
Iodomethane	ug/L	100	91.9	92	39-154	
m&p-Xylene	ug/L	100	105	105	81-124	
Methylene Chloride	ug/L	50	52.5	105	64-133	
o-Xylene	ug/L	50	51.2	102	79-131	
Styrene	ug/L	50	53.1	106	84-126	
Tetrachloroethene	ug/L	50	53.1	106	78-122	
Tetrahydrofuran	ug/L	500	574	115	69-148	
Toluene	ug/L	50	50.7	101	80-121	
trans-1,2-Dichloroethene	ug/L	50	52.7	105	71-127	
trans-1,3-Dichloropropene	ug/L	50	56.0	112	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	63.4	127	40-160	
Trichloroethene	ug/L	50	50.4	101	78-122	
Trichlorofluoromethane	ug/L	50	54.6	109	53-137	
Vinyl acetate	ug/L	100	102	102	40-160	
Vinyl chloride	ug/L	50	54.9	110	58-137	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1334819

Parameter	Units	92226122005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	25.2	126	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	26.5	132	70-130	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.8	109	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.4	112	70-130	
1,1-Dichloroethane	ug/L	ND	20	24.5	122	70-130	
1,1-Dichloroethene	ug/L	ND	20	26.1	130	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	23.7	119	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	21.3	106	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	23.7	119	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.7	114	70-130	
1,2-Dichloroethane	ug/L	ND	20	23.3	116	70-130	
1,2-Dichloropropane	ug/L	ND	20	23.5	117	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	23.7	118	70-130	
2-Butanone (MEK)	ug/L	ND	40	42.5	106	70-130	
2-Hexanone	ug/L	ND	40	47.6	119	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	48.0	120	70-130	
Acetone	ug/L	ND	40	41.0	103	70-130	
Acrylonitrile	ug/L	ND	100	107	107	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

MATRIX SPIKE SAMPLE: 1334819

Parameter	Units	92226122005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	23.7	118	70-148	
Bromochloromethane	ug/L	ND	20	23.3	117	70-130	
Bromodichloromethane	ug/L	ND	20	23.1	115	70-130	
Bromoform	ug/L	ND	20	21.9	109	70-130	
Bromomethane	ug/L	ND	20	26.0	130	70-130	
Carbon disulfide	ug/L	ND	20	26.7	133	70-130	M0
Carbon tetrachloride	ug/L	ND	20	29.7	148	70-130	M0
Chlorobenzene	ug/L	ND	20	23.6	118	70-146	
Chloroethane	ug/L	ND	20	25.5	127	70-130	
Chloroform	ug/L	ND	20	22.7	113	70-130	
Chloromethane	ug/L	ND	20	22.9	115	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	24.9	124	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	24.8	124	70-130	
Dibromochloromethane	ug/L	ND	20	22.4	112	70-130	
Dibromomethane	ug/L	ND	20	24.3	122	70-130	
Ethylbenzene	ug/L	ND	20	24.4	122	70-130	
Iodomethane	ug/L	ND	40	47.3	118	70-130	
m&p-Xylene	ug/L	ND	40	49.6	124	70-130	
Methylene Chloride	ug/L	ND	20	23.9	118	70-130	
o-Xylene	ug/L	ND	20	23.8	119	70-130	
Styrene	ug/L	ND	20	24.4	122	70-130	
Tetrachloroethene	ug/L	ND	20	25.3	127	70-130	
Tetrahydrofuran	ug/L	ND	200	225	112	70-130	
Toluene	ug/L	ND	20	23.7	118	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	24.6	123	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	24.1	120	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	24.8	124	70-130	
Trichloroethene	ug/L	ND	20	23.4	117	69-151	
Trichlorofluoromethane	ug/L	ND	20	26.1	130	70-130	
Vinyl acetate	ug/L	ND	40	33.8	84	70-130	
Vinyl chloride	ug/L	ND	20	25.4	127	70-130	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1334820

Parameter	Units	92226122006 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

SAMPLE DUPLICATE: 1334820

Parameter	Units	92226122006 Result	Dup Result	RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Acrylonitrile	ug/L	ND	ND		
Benzene	ug/L	0.42J	0.46J		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon disulfide	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Iodomethane	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Tetrahydrofuran	ug/L	15.9	18.0	12	
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	109	112	3	
4-Bromofluorobenzene (S)	%	104	104	0	
Toluene-d8 (S)	%	98	97	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MSV/29348 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

METHOD BLANK: 1336424 Matrix: Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/21/14 19:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/21/14 19:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/21/14 19:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/21/14 19:49	
1,1-Dichloroethane	ug/L	ND	1.0	11/21/14 19:49	
1,1-Dichloroethene	ug/L	ND	1.0	11/21/14 19:49	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/21/14 19:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/21/14 19:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/21/14 19:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/21/14 19:49	
1,2-Dichloroethane	ug/L	ND	1.0	11/21/14 19:49	
1,2-Dichloropropane	ug/L	ND	1.0	11/21/14 19:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/21/14 19:49	
2-Butanone (MEK)	ug/L	ND	5.0	11/21/14 19:49	
2-Hexanone	ug/L	ND	5.0	11/21/14 19:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/21/14 19:49	
Acetone	ug/L	ND	25.0	11/21/14 19:49	
Acrylonitrile	ug/L	ND	10.0	11/21/14 19:49	
Benzene	ug/L	ND	1.0	11/21/14 19:49	
Bromochloromethane	ug/L	ND	1.0	11/21/14 19:49	
Bromodichloromethane	ug/L	ND	1.0	11/21/14 19:49	
Bromoform	ug/L	ND	1.0	11/21/14 19:49	
Bromomethane	ug/L	ND	2.0	11/21/14 19:49	
Carbon disulfide	ug/L	ND	2.0	11/21/14 19:49	
Carbon tetrachloride	ug/L	ND	1.0	11/21/14 19:49	
Chlorobenzene	ug/L	ND	1.0	11/21/14 19:49	
Chloroethane	ug/L	ND	1.0	11/21/14 19:49	
Chloroform	ug/L	ND	1.0	11/21/14 19:49	
Chloromethane	ug/L	ND	1.0	11/21/14 19:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/21/14 19:49	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/21/14 19:49	
Dibromochloromethane	ug/L	ND	1.0	11/21/14 19:49	
Dibromomethane	ug/L	ND	1.0	11/21/14 19:49	
Ethylbenzene	ug/L	ND	1.0	11/21/14 19:49	
Iodomethane	ug/L	ND	5.0	11/21/14 19:49	
m&p-Xylene	ug/L	ND	2.0	11/21/14 19:49	
Methylene Chloride	ug/L	ND	1.0	11/21/14 19:49	
o-Xylene	ug/L	ND	1.0	11/21/14 19:49	
Styrene	ug/L	ND	1.0	11/21/14 19:49	
Tetrachloroethene	ug/L	ND	1.0	11/21/14 19:49	
Tetrahydrofuran	ug/L	ND	10.0	11/21/14 19:49	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

METHOD BLANK: 1336424 Matrix: Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	11/21/14 19:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/21/14 19:49	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/21/14 19:49	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	11/21/14 19:49	
Trichloroethene	ug/L	ND	1.0	11/21/14 19:49	
Trichlorofluoromethane	ug/L	ND	1.0	11/21/14 19:49	
Vinyl acetate	ug/L	ND	2.0	11/21/14 19:49	
Vinyl chloride	ug/L	ND	1.0	11/21/14 19:49	
1,2-Dichloroethane-d4 (S)	%	87	70-130	11/21/14 19:49	
4-Bromofluorobenzene (S)	%	97	70-130	11/21/14 19:49	
Toluene-d8 (S)	%	98	70-130	11/21/14 19:49	

LABORATORY CONTROL SAMPLE: 1336425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	80-125	
1,1,1-Trichloroethane	ug/L	50	48.0	96	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	79-124	
1,1,2-Trichloroethane	ug/L	50	50.0	100	85-125	
1,1-Dichloroethane	ug/L	50	49.8	100	73-126	
1,1-Dichloroethene	ug/L	50	47.7	95	66-135	
1,2,3-Trichloropropane	ug/L	50	46.3	93	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.2	108	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	52.4	105	83-124	
1,2-Dichlorobenzene	ug/L	50	51.6	103	80-133	
1,2-Dichloroethane	ug/L	50	43.1	86	67-128	
1,2-Dichloropropane	ug/L	50	50.5	101	75-132	
1,4-Dichlorobenzene	ug/L	50	50.8	102	78-130	
2-Butanone (MEK)	ug/L	100	94.6	95	61-144	
2-Hexanone	ug/L	100	100	100	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.0	99	72-135	
Acetone	ug/L	100	90.5	90	48-146	
Acrylonitrile	ug/L	250	256	102	40-160	
Benzene	ug/L	50	53.5	107	80-125	
Bromochloromethane	ug/L	50	51.6	103	71-125	
Bromodichloromethane	ug/L	50	45.8	92	78-124	
Bromoform	ug/L	50	46.1	92	71-128	
Bromomethane	ug/L	50	52.6	105	40-160	
Carbon disulfide	ug/L	50	54.3	109	50-160	
Carbon tetrachloride	ug/L	50	49.1	98	69-131	
Chlorobenzene	ug/L	50	50.7	101	81-122	
Chloroethane	ug/L	50	53.9	108	39-148	
Chloroform	ug/L	50	44.1	88	73-127	
Chloromethane	ug/L	50	57.8	116	44-146	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

LABORATORY CONTROL SAMPLE: 1336425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	51.0	102	74-124	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	72-132	
Dibromochloromethane	ug/L	50	50.0	100	78-125	
Dibromomethane	ug/L	50	49.5	99	82-120	
Ethylbenzene	ug/L	50	51.0	102	79-121	
Iodomethane	ug/L	100	139	139	39-154	
m&p-Xylene	ug/L	100	102	102	81-124	
Methylene Chloride	ug/L	50	48.5	97	64-133	
o-Xylene	ug/L	50	50.3	101	79-131	
Styrene	ug/L	50	54.0	108	84-126	
Tetrachloroethene	ug/L	50	48.6	97	78-122	
Tetrahydrofuran	ug/L	500	497	99	69-148	
Toluene	ug/L	50	51.6	103	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	71-127	
trans-1,3-Dichloropropene	ug/L	50	54.4	109	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	48.8	98	40-160	
Trichloroethene	ug/L	50	49.7	99	78-122	
Trichlorofluoromethane	ug/L	50	48.9	98	53-137	
Vinyl acetate	ug/L	100	92.2	92	40-160	
Vinyl chloride	ug/L	50	64.6	129	58-137	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1336426

Parameter	Units	92226122011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	22.4	112	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.8	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	22.5	113	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.8	114	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.0	110	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	19.6	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.2	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.2	111	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.7	113	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.8	94	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.4	112	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	23.4	117	70-130	
2-Butanone (MEK)	ug/L	ND	40	37.9	95	70-130	
2-Hexanone	ug/L	ND	40	39.9	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	2.2J	40	42.9	102	70-130	
Acetone	ug/L	ND	40	38.0	82	70-130	
Acrylonitrile	ug/L	ND	100	107	107	70-130	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

MATRIX SPIKE SAMPLE: 1336426

Parameter	Units	92226122011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	0.44J	20	25.5	125	70-148	
Bromochloromethane	ug/L	ND	20	22.6	113	70-130	
Bromodichloromethane	ug/L	ND	20	19.7	99	70-130	
Bromoform	ug/L	ND	20	19.6	98	70-130	
Bromomethane	ug/L	ND	20	27.3	137	70-130	M0
Carbon disulfide	ug/L	ND	20	25.9	128	70-130	
Carbon tetrachloride	ug/L	ND	20	22.1	111	70-130	
Chlorobenzene	ug/L	ND	20	23.2	116	70-146	
Chloroethane	ug/L	ND	20	27.2	136	70-130	M0
Chloroform	ug/L	ND	20	20.0	100	70-130	
Chloromethane	ug/L	ND	20	27.3	137	70-130	M0
cis-1,2-Dichloroethene	ug/L	0.35J	20	24.0	118	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	23.5	117	70-130	
Dibromochloromethane	ug/L	ND	20	20.9	105	70-130	
Dibromomethane	ug/L	ND	20	21.1	106	70-130	
Ethylbenzene	ug/L	0.73J	20	24.5	119	70-130	
Iodomethane	ug/L	ND	40	62.3	156	70-130	M0
m&p-Xylene	ug/L	1.1J	40	48.4	118	70-130	
Methylene Chloride	ug/L	ND	20	19.7	99	70-130	
o-Xylene	ug/L	0.65J	20	23.6	115	70-130	
Styrene	ug/L	ND	20	24.2	121	70-130	
Tetrachloroethene	ug/L	ND	20	22.6	113	70-130	
Tetrahydrofuran	ug/L	106	200	287	91	70-130	
Toluene	ug/L	ND	20	23.8	118	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.5	117	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	22.8	114	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	18.7	93	70-130	
Trichloroethene	ug/L	ND	20	23.4	116	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.5	118	70-130	
Vinyl acetate	ug/L	ND	40	38.5	96	70-130	
Vinyl chloride	ug/L	ND	20	30.6	153	70-130	M0
1,2-Dichloroethane-d4 (S)	%				85	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1336427

Parameter	Units	92226122012 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

SAMPLE DUPLICATE: 1336427

Parameter	Units	92226122012 Result	Dup Result	RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Acrylonitrile	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon disulfide	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Iodomethane	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Tetrahydrofuran	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	90	89	0	
4-Bromofluorobenzene (S)	%	97	98	1	
Toluene-d8 (S)	%	98	99	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: MSV/29383 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1337960 Matrix: Water
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/25/14 12:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/25/14 12:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/25/14 12:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/25/14 12:10	
1,1-Dichloroethane	ug/L	ND	1.0	11/25/14 12:10	
1,1-Dichloroethene	ug/L	ND	1.0	11/25/14 12:10	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/25/14 12:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/25/14 12:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/25/14 12:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/25/14 12:10	
1,2-Dichloroethane	ug/L	ND	1.0	11/25/14 12:10	
1,2-Dichloropropane	ug/L	ND	1.0	11/25/14 12:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/25/14 12:10	
2-Butanone (MEK)	ug/L	ND	5.0	11/25/14 12:10	
2-Hexanone	ug/L	ND	5.0	11/25/14 12:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/25/14 12:10	
Acetone	ug/L	ND	25.0	11/25/14 12:10	
Acrylonitrile	ug/L	ND	10.0	11/25/14 12:10	
Benzene	ug/L	ND	1.0	11/25/14 12:10	
Bromochloromethane	ug/L	ND	1.0	11/25/14 12:10	
Bromodichloromethane	ug/L	ND	1.0	11/25/14 12:10	
Bromoform	ug/L	ND	1.0	11/25/14 12:10	
Bromomethane	ug/L	ND	2.0	11/25/14 12:10	
Carbon disulfide	ug/L	ND	2.0	11/25/14 12:10	
Carbon tetrachloride	ug/L	ND	1.0	11/25/14 12:10	
Chlorobenzene	ug/L	ND	1.0	11/25/14 12:10	
Chloroethane	ug/L	ND	1.0	11/25/14 12:10	
Chloroform	ug/L	ND	1.0	11/25/14 12:10	
Chloromethane	ug/L	ND	1.0	11/25/14 12:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/25/14 12:10	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/25/14 12:10	
Dibromochloromethane	ug/L	ND	1.0	11/25/14 12:10	
Dibromomethane	ug/L	ND	1.0	11/25/14 12:10	
Ethylbenzene	ug/L	ND	1.0	11/25/14 12:10	
Iodomethane	ug/L	ND	5.0	11/25/14 12:10	
m&p-Xylene	ug/L	ND	2.0	11/25/14 12:10	
Methylene Chloride	ug/L	ND	1.0	11/25/14 12:10	
o-Xylene	ug/L	ND	1.0	11/25/14 12:10	
Styrene	ug/L	ND	1.0	11/25/14 12:10	
Tetrachloroethene	ug/L	ND	1.0	11/25/14 12:10	
Tetrahydrofuran	ug/L	ND	10.0	11/25/14 12:10	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

METHOD BLANK: 1337960 Matrix: Water
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	11/25/14 12:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/25/14 12:10	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/25/14 12:10	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	11/25/14 12:10	
Trichloroethene	ug/L	ND	1.0	11/25/14 12:10	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/14 12:10	
Vinyl acetate	ug/L	ND	2.0	11/25/14 12:10	
Vinyl chloride	ug/L	ND	1.0	11/25/14 12:10	
1,2-Dichloroethane-d4 (S)	%	102	70-130	11/25/14 12:10	
4-Bromofluorobenzene (S)	%	97	70-130	11/25/14 12:10	
Toluene-d8 (S)	%	103	70-130	11/25/14 12:10	

LABORATORY CONTROL SAMPLE: 1337961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	80-125	
1,1,1-Trichloroethane	ug/L	50	51.2	102	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	50.2	100	79-124	
1,1,2-Trichloroethane	ug/L	50	50.4	101	85-125	
1,1-Dichloroethane	ug/L	50	54.4	109	73-126	
1,1-Dichloroethene	ug/L	50	53.5	107	66-135	
1,2,3-Trichloropropane	ug/L	50	48.9	98	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.5	105	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	83-124	
1,2-Dichlorobenzene	ug/L	50	49.0	98	80-133	
1,2-Dichloroethane	ug/L	50	46.9	94	67-128	
1,2-Dichloropropane	ug/L	50	55.0	110	75-132	
1,4-Dichlorobenzene	ug/L	50	49.7	99	78-130	
2-Butanone (MEK)	ug/L	100	109	109	61-144	
2-Hexanone	ug/L	100	106	106	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	72-135	
Acetone	ug/L	100	97.4	97	48-146	
Acrylonitrile	ug/L	250	276	111	40-160	
Benzene	ug/L	50	52.4	105	80-125	
Bromochloromethane	ug/L	50	63.4	127	71-125	L0
Bromodichloromethane	ug/L	50	48.0	96	78-124	
Bromoform	ug/L	50	42.9	86	71-128	
Bromomethane	ug/L	50	46.7	93	40-160	
Carbon disulfide	ug/L	50	58.5	117	50-160	
Carbon tetrachloride	ug/L	50	52.3	105	69-131	
Chlorobenzene	ug/L	50	50.7	101	81-122	
Chloroethane	ug/L	50	40.1	80	39-148	
Chloroform	ug/L	50	48.0	96	73-127	
Chloromethane	ug/L	50	51.6	103	44-146	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

LABORATORY CONTROL SAMPLE: 1337961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	55.1	110	74-124	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	72-132	
Dibromochloromethane	ug/L	50	45.8	92	78-125	
Dibromomethane	ug/L	50	51.3	103	82-120	
Ethylbenzene	ug/L	50	50.5	101	79-121	
Iodomethane	ug/L	100	118	118	39-154	
m&p-Xylene	ug/L	100	98.8	99	81-124	
Methylene Chloride	ug/L	50	60.3	121	64-133	
o-Xylene	ug/L	50	49.1	98	79-131	
Styrene	ug/L	50	52.3	105	84-126	
Tetrachloroethene	ug/L	50	47.7	95	78-122	
Tetrahydrofuran	ug/L	500	595	119	69-148	
Toluene	ug/L	50	49.8	100	80-121	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	71-127	
trans-1,3-Dichloropropene	ug/L	50	53.5	107	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	48.0	96	40-160	
Trichloroethene	ug/L	50	45.5	91	78-122	
Trichlorofluoromethane	ug/L	50	43.7	87	53-137	
Vinyl acetate	ug/L	100	108	108	40-160	
Vinyl chloride	ug/L	50	50.8	102	58-137	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1337962

Parameter	Units	92226774001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.2	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.5	92	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.3	102	70-130	
1,1-Dichloroethane	ug/L	21.5	20	44.8	116	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.3	115	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	19.4	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	17.8	89	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.7	103	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	19.3	96	70-130	
1,2-Dichloroethane	ug/L	0.68J	20	20.3	98	70-130	
1,2-Dichloropropane	ug/L	4.1	20	27.3	116	70-130	
1,4-Dichlorobenzene	ug/L	4.7	20	24.7	100	70-130	
2-Butanone (MEK)	ug/L	ND	40	38.8	97	70-130	
2-Hexanone	ug/L	ND	40	40.1	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	39.4	99	70-130	
Acetone	ug/L	ND	40	39.0	92	70-130	
Acrylonitrile	ug/L	ND	100	104	104	70-130	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

MATRIX SPIKE SAMPLE: 1337962

Parameter	Units	92226774001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	6.2	20	29.2	115	70-148	
Bromochloromethane	ug/L	ND	20	23.2	116	70-130	
Bromodichloromethane	ug/L	ND	20	19.2	96	70-130	
Bromoform	ug/L	ND	20	17.1	86	70-130	
Bromomethane	ug/L	ND	20	11.8	59	70-130	M0
Carbon disulfide	ug/L	ND	20	21.9	110	70-130	
Carbon tetrachloride	ug/L	ND	20	24.6	123	70-130	
Chlorobenzene	ug/L	0.37J	20	21.6	106	70-146	
Chloroethane	ug/L	ND	20	15.2	75	70-130	
Chloroform	ug/L	ND	20	20.7	104	70-130	
Chloromethane	ug/L	ND	20	19.6	98	70-130	
cis-1,2-Dichloroethene	ug/L	44.9	20	69.4	122	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.3	102	70-130	
Dibromochloromethane	ug/L	ND	20	16.4	82	70-130	
Dibromomethane	ug/L	ND	20	20.7	104	70-130	
Ethylbenzene	ug/L	ND	20	21.4	107	70-130	
Iodomethane	ug/L	ND	40	41.0	103	70-130	
m&p-Xylene	ug/L	ND	40	43.1	108	70-130	
Methylene Chloride	ug/L	ND	20	25.0	125	70-130	
o-Xylene	ug/L	ND	20	20.3	101	70-130	
Styrene	ug/L	ND	20	20.9	105	70-130	
Tetrachloroethene	ug/L	1.1	20	21.6	102	70-130	
Tetrahydrofuran	ug/L	3.7J	200	214	105	70-130	
Toluene	ug/L	ND	20	21.9	110	70-155	
trans-1,2-Dichloroethene	ug/L	1.4J	20	24.5	116	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.4	92	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	16.6	83	70-130	
Trichloroethene	ug/L	5.1	20	25.6	103	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.0	115	70-130	
Vinyl acetate	ug/L	ND	40	35.0	87	70-130	
Vinyl chloride	ug/L	5.2	20	24.9	99	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				105	70-130	

SAMPLE DUPLICATE: 1337963

Parameter	Units	92226774002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	1.3J	1.3	1	
1,1-Dichloroethene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

SAMPLE DUPLICATE: 1337963

Parameter	Units	92226774002 Result	Dup Result	RPD	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	0.47J	0.45J		
1,2-Dichloropropane	ug/L	0.56J	ND		
1,4-Dichlorobenzene	ug/L	1.9	1.8	6	
2-Butanone (MEK)	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Acrylonitrile	ug/L	ND	ND		
Benzene	ug/L	0.30J	0.33J		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon disulfide	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	0.95J	0.93J		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	9.6	9.4	2	
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Iodomethane	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Tetrahydrofuran	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	2.1	2.1	1	
1,2-Dichloroethane-d4 (S)	%	106	102	4	
4-Bromofluorobenzene (S)	%	99	99	0	
Toluene-d8 (S)	%	102	103	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: OEXT/31266
QC Batch Method: EPA 3510
Analysis Method: EPA 8081
Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92226122005, 92226122006

METHOD BLANK: 1335833
Matrix: Water
Associated Lab Samples: 92226122005, 92226122006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	11/24/14 12:38	
4,4'-DDT	ug/L	ND	0.050	11/24/14 12:38	
Aldrin	ug/L	ND	0.050	11/24/14 12:38	
alpha-BHC	ug/L	ND	0.050	11/24/14 12:38	
delta-BHC	ug/L	ND	0.050	11/24/14 12:38	
Endosulfan II	ug/L	ND	0.050	11/24/14 12:38	
Endrin	ug/L	ND	0.050	11/24/14 12:38	
Endrin aldehyde	ug/L	ND	0.050	11/24/14 12:38	
Heptachlor	ug/L	ND	0.050	11/24/14 12:38	
Methoxychlor	ug/L	ND	0.15	11/24/14 12:38	
Decachlorobiphenyl (S)	%	85	20-130	11/24/14 12:38	
Tetrachloro-m-xylene (S)	%	76	20-130	11/24/14 12:38	

LABORATORY CONTROL SAMPLE: 1335834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.25	101	20-150	
4,4'-DDT	ug/L	.25	0.26	106	20-150	
Aldrin	ug/L	.25	0.21	86	20-150	
alpha-BHC	ug/L	.25	0.24	99	20-150	
delta-BHC	ug/L	.25	0.27	110	20-150	
Endosulfan II	ug/L	.25	0.25	102	20-150	
Endrin	ug/L	.25	0.26	106	20-150	
Endrin aldehyde	ug/L	.25	0.22	89	20-150	
Heptachlor	ug/L	.25	0.21	85	20-150	
Methoxychlor	ug/L	.74	0.77	104	20-150	
Decachlorobiphenyl (S)	%			79	20-130	
Tetrachloro-m-xylene (S)	%			94	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335835 1335836

Parameter	Units	92226122006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4,4'-DDD	ug/L	ND	.5	.5	0.42	0.42	84	84	20-150	0	
4,4'-DDT	ug/L	ND	.5	.5	0.43	0.44	88	90	20-150	2	
Aldrin	ug/L	ND	.5	.5	0.31	0.32	62	65	20-150	4	
alpha-BHC	ug/L	ND	.5	.5	0.41	0.39	82	78	20-150	6	
delta-BHC	ug/L	ND	.5	.5	0.45	0.43	92	87	20-150	5	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335835 1335836

Parameter	Units	92226122006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Endosulfan II	ug/L	ND	.5	.5	0.37	0.36	74	73	20-150	2	
Endrin	ug/L	ND	.5	.5	0.47	0.47	96	95	20-150	0	
Endrin aldehyde	ug/L	ND	.5	.5	0.35	0.31	71	63	20-150	11	
Heptachlor	ug/L	ND	.5	.5	0.36	0.37	74	75	20-150	1	
Methoxychlor	ug/L	ND	1.5	1.5	1.3	1.3	86	87	20-150	2	
Decachlorobiphenyl (S)	%						71	69	20-130		
Tetrachloro-m-xylene (S)	%						72	58	20-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: OEXT/31355
QC Batch Method: EPA 3510
Analysis Method: EPA 8081
Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92226122015, 92226122016

METHOD BLANK: 1339357
Matrix: Water
Associated Lab Samples: 92226122015, 92226122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	12/02/14 18:32	
4,4'-DDT	ug/L	ND	0.050	12/02/14 18:32	
Aldrin	ug/L	ND	0.050	12/02/14 18:32	
alpha-BHC	ug/L	ND	0.050	12/02/14 18:32	
delta-BHC	ug/L	ND	0.050	12/02/14 18:32	
Endosulfan II	ug/L	ND	0.050	12/02/14 18:32	
Endrin	ug/L	ND	0.050	12/02/14 18:32	
Endrin aldehyde	ug/L	ND	0.050	12/02/14 18:32	
Heptachlor	ug/L	ND	0.050	12/02/14 18:32	
Methoxychlor	ug/L	ND	0.15	12/02/14 18:32	
Decachlorobiphenyl (S)	%	84	20-130	12/02/14 18:32	
Tetrachloro-m-xylene (S)	%	77	20-130	12/02/14 18:32	

LABORATORY CONTROL SAMPLE: 1339358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.22	87	20-150	
4,4'-DDT	ug/L	.25	0.22	90	20-150	
Aldrin	ug/L	.25	0.17	69	20-150	
alpha-BHC	ug/L	.25	0.22	87	20-150	
delta-BHC	ug/L	.25	0.25	100	20-150	
Endosulfan II	ug/L	.25	0.22	91	20-150	
Endrin	ug/L	.25	0.23	92	20-150	
Endrin aldehyde	ug/L	.25	0.19	77	20-150	
Heptachlor	ug/L	.25	0.17	69	20-150	
Methoxychlor	ug/L	.74	0.68	91	20-150	
Decachlorobiphenyl (S)	%			85	20-130	
Tetrachloro-m-xylene (S)	%			75	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339359 1339360

Parameter	Units	92226660007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4,4'-DDD	ug/L	ND	.5	.5	0.44	0.43	89	86	20-150	3	
4,4'-DDT	ug/L	ND	.5	.5	0.46	0.44	93	89	20-150	4	
Aldrin	ug/L	ND	.5	.5	0.38	0.36	77	74	20-150	5	
alpha-BHC	ug/L	ND	.5	.5	0.38	0.36	77	73	20-150	5	
delta-BHC	ug/L	ND	.5	.5	0.46	0.44	92	89	20-150	4	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339359 1339360

Parameter	Units	92226660007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Endosulfan II	ug/L	ND	.5	.5	0.44	0.42	90	85	20-150	6	
Endrin	ug/L	ND	.5	.5	0.50	0.49	102	98	20-150	3	
Endrin aldehyde	ug/L	ND	.5	.5	0.33	0.30	67	61	20-150	10	
Heptachlor	ug/L	ND	.5	.5	0.39	0.37	79	75	20-150	6	
Methoxychlor	ug/L	ND	1.5	1.5	1.5	1.4	99	97	20-150	2	
Decachlorobiphenyl (S)	%						89	88	20-130		
Tetrachloro-m-xylene (S)	%						59	57	20-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: OEXT/19807 Analysis Method: EPA 8151
QC Batch Method: EPA 8151 Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92226122005, 92226122006, 92226122015, 92226122016

METHOD BLANK: 1065070 Matrix: Water
Associated Lab Samples: 92226122005, 92226122006, 92226122015, 92226122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	ND	0.19	11/25/14 05:20	
2,4-D	ug/L	ND	0.94	11/25/14 05:20	
2,4-DCAA (S)	%	87	66-130	11/25/14 05:20	

LABORATORY CONTROL SAMPLE: 1065071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1.2	1.1	95	63-133	
2,4-D	ug/L	6	5.4	90	40-137	
2,4-DCAA (S)	%			86	66-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1065360 1065361

Parameter	Units	92226449001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
2,4,5-TP (Silvex)	ug/L	ND	2.4	2.4	2.5	2.3	104	96	63-133	8	
2,4-D	ug/L	ND	12	12	11.7	12.7	97	106	40-137	8	
2,4-DCAA (S)	%						79	84	66-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: OEXT/31247 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92226122005, 92226122006

METHOD BLANK: 1335120 | Matrix: Water
Associated Lab Samples: 92226122005, 92226122006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(a)anthracene	ug/L	ND	10.0	11/21/14 12:12	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	11/21/14 12:12	
Chrysene	ug/L	ND	10.0	11/21/14 12:12	
2,4,6-Tribromophenol (S)	%	49	27-110	11/21/14 12:12	
2-Fluorobiphenyl (S)	%	31	27-110	11/21/14 12:12	
2-Fluorophenol (S)	%	18	12-110	11/21/14 12:12	
Nitrobenzene-d5 (S)	%	40	21-110	11/21/14 12:12	
Phenol-d6 (S)	%	12	10-110	11/21/14 12:12	
Terphenyl-d14 (S)	%	66	31-107	11/21/14 12:12	

LABORATORY CONTROL SAMPLE: 1335121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	ug/L	50	39.1	78	56-121	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.8	86	50-145	
Chrysene	ug/L	50	39.7	79	58-127	
2,4,6-Tribromophenol (S)	%			68	27-110	
2-Fluorobiphenyl (S)	%			58	27-110	
2-Fluorophenol (S)	%			25	12-110	
Nitrobenzene-d5 (S)	%			57	21-110	
Phenol-d6 (S)	%			18	10-110	
Terphenyl-d14 (S)	%			79	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335122 1335123

Parameter	Units	92226122006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzo(a)anthracene	ug/L	ND	100	100	62.7	72.5	63	73	22-117	15	
bis(2-Ethylhexyl)phthalate	ug/L	ND	100	100	67.4	76.3	67	76	23-102	12	
Chrysene	ug/L	ND	100	100	63.1	73.4	63	73	23-115	15	
2,4,6-Tribromophenol (S)	%						58	65	27-110		
2-Fluorobiphenyl (S)	%						43	47	27-110		
2-Fluorophenol (S)	%						28	32	12-110		
Nitrobenzene-d5 (S)	%						44	49	21-110		
Phenol-d6 (S)	%						22	27	10-110		
Terphenyl-d14 (S)	%						57	63	31-107		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: OEXT/31368 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92226122015, 92226122016

METHOD BLANK: 1339535 | Matrix: Water
Associated Lab Samples: 92226122015, 92226122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(a)anthracene	ug/L	ND	10.0	12/03/14 12:36	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	12/03/14 12:36	
Chrysene	ug/L	ND	10.0	12/03/14 12:36	
2,4,6-Tribromophenol (S)	%	46	27-110	12/03/14 12:36	
2-Fluorobiphenyl (S)	%	38	27-110	12/03/14 12:36	
2-Fluorophenol (S)	%	19	12-110	12/03/14 12:36	
Nitrobenzene-d5 (S)	%	37	21-110	12/03/14 12:36	
Phenol-d6 (S)	%	12	10-110	12/03/14 12:36	
Terphenyl-d14 (S)	%	74	31-107	12/03/14 12:36	

LABORATORY CONTROL SAMPLE: 1339536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	ug/L	50	32.1	64	56-121	
bis(2-Ethylhexyl)phthalate	ug/L	50	28.6	57	50-145	
Chrysene	ug/L	50	33.3	67	58-127	
2,4,6-Tribromophenol (S)	%			63	27-110	
2-Fluorobiphenyl (S)	%			45	27-110	
2-Fluorophenol (S)	%			22	12-110	
Nitrobenzene-d5 (S)	%			37	21-110	
Phenol-d6 (S)	%			15	10-110	
Terphenyl-d14 (S)	%			63	31-107	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34348 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92226122001, 92226122002

METHOD BLANK: 1333806 | Matrix: Water
Associated Lab Samples: 92226122001, 92226122002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	11/19/14 16:50	

LABORATORY CONTROL SAMPLE: 1333807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	47900	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1333808 1333809

Parameter	Units	92225522005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	516 mg/L	50000	50000	529000	528000	26	24	90-110	0	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34448
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92226122005, 92226122006

METHOD BLANK: 1337798
Matrix: Water
Associated Lab Samples: 92226122005, 92226122006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	11/25/14 13:39	

LABORATORY CONTROL SAMPLE: 1337799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	51000	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337800 1337801

Parameter	Units	92226545001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	134 mg/L	50000	50000	178000	176000	89	86	90-110	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337802 1337803

Parameter	Units	92226639007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	32.7 mg/L	50000	50000	82300	81300	99	97	90-110	1	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34481 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92226122007, 92226122008, 92226122009, 92226122010

METHOD BLANK: 1339126 Matrix: Water
Associated Lab Samples: 92226122007, 92226122008, 92226122009, 92226122010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	11/26/14 17:00	

LABORATORY CONTROL SAMPLE: 1339127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	48000	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339128 1339129

Parameter	Units	92226122007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	24000	50000	50000	70600	71700	93	96	90-110	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339972 1339973

Parameter	Units	92226936004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	18.4 mg/L	50000	50000	66200	66100	96	95	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34522 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

METHOD BLANK: 1340266 Matrix: Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	12/01/14 14:00	

LABORATORY CONTROL SAMPLE: 1340267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	48100	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340268 1340269

Parameter	Units	92226122011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	42200	50000	50000	88300	89200	92	94	90-110	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34524 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1340302 Matrix: Water
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	12/02/14 13:39	

LABORATORY CONTROL SAMPLE: 1340303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	48200	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340304 1340305

Parameter	Units	92226731001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Alkalinity, Total as CaCO3	ug/L	9.2 mg/L	50000	50000	56400	57300	94	96	90-110	2	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34396
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92226122001, 92226122002

METHOD BLANK: 1335761
Matrix: Water
Associated Lab Samples: 92226122001, 92226122002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	11/21/14 12:02	

LABORATORY CONTROL SAMPLE: 1335762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	244000	98	90-110	

SAMPLE DUPLICATE: 1335763

Parameter	Units	92225942003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	195000	190000	3	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34432 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009

METHOD BLANK: 1337377 Matrix: Water
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	11/24/14 17:21	

LABORATORY CONTROL SAMPLE: 1337378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	244000	98	90-110	

SAMPLE DUPLICATE: 1337379

Parameter	Units	92226105004 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	927 mg/L	940000	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34433
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92226122010

METHOD BLANK: 1337493
Matrix: Water
Associated Lab Samples: 92226122010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	11/24/14 18:19	

LABORATORY CONTROL SAMPLE: 1337494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	256000	102	90-110	

SAMPLE DUPLICATE: 1337495

Parameter	Units	92226122010 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	119000	122000	2	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34461 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

METHOD BLANK: 1338542 Matrix: Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	11/25/14 18:03	

LABORATORY CONTROL SAMPLE: 1338543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	244000	98	90-110	

SAMPLE DUPLICATE: 1338544

Parameter	Units	92226541005 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	929 mg/L	931000	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34469 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1338783 Matrix: Water
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	11/26/14 06:25	

LABORATORY CONTROL SAMPLE: 1338784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	262000	105	90-110	

SAMPLE DUPLICATE: 1338785

Parameter	Units	92226611006 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	43.0 mg/L	52000	19	D6

SAMPLE DUPLICATE: 1338786

Parameter	Units	92226758001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	737 mg/L	727000	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34369 | Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D | Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92226122001, 92226122002, 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

METHOD BLANK: 1334894 | Matrix: Water
Associated Lab Samples: 92226122001, 92226122002, 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	100	11/20/14 15:00	

LABORATORY CONTROL SAMPLE: 1334895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	501	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334896 | 1334897

Parameter	Units	92226122001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	ND	500	500	517	516	101	101	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334898 | 1334899

Parameter	Units	92226311002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	ND	500	500	518	517	100	100	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34421 | Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D | Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014, 92226122015, 92226122016, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1336896 | Matrix: Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014, 92226122015, 92226122016, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	100	11/24/14 14:00	

LABORATORY CONTROL SAMPLE: 1336897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	521	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336898 1336899

Parameter	Units	92226152002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	0.15 mg/L	500	500	639	639	97	97	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336900 1336901

Parameter	Units	92226660007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	ND	500	500	521	523	97	97	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WET/34429
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92226122017

METHOD BLANK: 1337167
Matrix: Water
Associated Lab Samples: 92226122017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	100	11/24/14 16:30	

LABORATORY CONTROL SAMPLE: 1337168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	514	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337169 1337170

Parameter	Units	92226725004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	ND	500	500	508	510	95	95	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337171 1337172

Parameter	Units	92226449005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	ND	500	500	480	480	95	95	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21011
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92226122001, 92226122002

METHOD BLANK: 1335719
Matrix: Water
Associated Lab Samples: 92226122001, 92226122002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	11/23/14 12:31	

LABORATORY CONTROL SAMPLE: 1335720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	18800	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335721 1335722

Parameter	Units	92225256017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	246 mg/L	20000	20000	257000	252000	52	26	90-110	2	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335723 1335724

Parameter	Units	92226619004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	18.3 mg/L	20000	20000	39200	39400	105	106	90-110	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21103 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

METHOD BLANK: 1341240 Matrix: Water
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	12/02/14 19:23	

LABORATORY CONTROL SAMPLE: 1341241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	20000	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1341242 1341243

Parameter	Units	92226830004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	56.7 mg/L	20000	20000	70000	68600	67	59	90-110	2	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1341244 1341245

Parameter	Units	92226122005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	1720J	20000	20000	20100	19900	92	91	90-110	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21135 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014, 92226122015, 92226122016

METHOD BLANK: 1343354 Matrix: Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014, 92226122015, 92226122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	12/04/14 20:05	

LABORATORY CONTROL SAMPLE: 1343355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19100	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1343356 1343357

Parameter	Units	92226451005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	3.1 mg/L	20000	20000	21600	21400	92	92	90-110	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1343358 1343359

Parameter	Units	92226611006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	14.8 mg/L	20000	20000	34700	34700	100	100	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21204 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92226122017, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1347069 Matrix: Water
Associated Lab Samples: 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	12/10/14 03:32	

LABORATORY CONTROL SAMPLE: 1347070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19200	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1347071 1347073

Parameter	Units	92226122017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	16800	20000	20000	38100	38100	107	106	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1347074 1347075

Parameter	Units	92226660007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	2.3 mg/L	20000	20000	21400	21400	95	96	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21095
QC Batch Method: SM 4500-Cl-E
Analysis Method: SM 4500-Cl-E
Analysis Description: 4500 Chloride
Associated Lab Samples: 92226122001, 92226122002

METHOD BLANK: 1340768
Matrix: Water
Associated Lab Samples: 92226122001, 92226122002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	12/03/14 02:36	

LABORATORY CONTROL SAMPLE: 1340769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20300	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340770 1340771

Parameter	Units	92226025002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	481 mg/L	20000	20000	504000	505000	117	119	90-110	0	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340772 1340773

Parameter	Units	92226588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	16.6 mg/L	20000	20000	35100	34700	92	91	90-110	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21096 | Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E | Analysis Description: 4500 Chloride
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010, 92226122011, 92226122012

METHOD BLANK: 1340774 | Matrix: Water
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010, 92226122011, 92226122012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	12/03/14 02:57	

LABORATORY CONTROL SAMPLE: 1340775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20600	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340776 | 1340777

Parameter	Units	92227164003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	56.4 mg/L	20000	20000	76500	76700	100	101	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340778 | 1340779

Parameter	Units	92226451004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	5.2 mg/L	20000	20000	25600	25700	102	102	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21097
QC Batch Method: SM 4500-Cl-E
Analysis Method: SM 4500-Cl-E
Analysis Description: 4500 Chloride
Associated Lab Samples: 92226122013, 92226122014

METHOD BLANK: 1340780
Matrix: Water
Associated Lab Samples: 92226122013, 92226122014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	12/03/14 03:37	

LABORATORY CONTROL SAMPLE: 1340781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20600	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340782 1340783

Parameter	Units	92226122013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	8240	20000	20000	28700	28600	102	102	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340784 1340785

Parameter	Units	92226725001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	17100	20000	20000	35800	35800	94	94	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21098 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1340786 Matrix: Water
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	12/03/14 04:02	

LABORATORY CONTROL SAMPLE: 1340787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20900	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340788 1340789

Parameter	Units	92226122015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	146000	20000	20000	162000	164000	79	86	90-110	1	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340790 1340791

Parameter	Units	92226864002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	3000 mg/L	20000	20000	2860000	2850000	-706	-753	90-110	0	M6

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21031
QC Batch Method: SM 4500-CN-E
Analysis Method: SM 4500-CN-E
Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92226122001, 92226122002

METHOD BLANK: 1336714
Matrix: Water
Associated Lab Samples: 92226122001, 92226122002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	8.0	11/23/14 15:56	

LABORATORY CONTROL SAMPLE: 1336715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	116	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336716 1336717

Parameter	Units	92226091001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	114	115	109	110	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336718 1336719

Parameter	Units	92225974001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	112	110	107	105	75-125	2	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21084 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

METHOD BLANK: 1340048 | Matrix: Water
Associated Lab Samples: 92226122005, 92226122006, 92226122007, 92226122008, 92226122009, 92226122010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	8.0	12/02/14 14:17	

LABORATORY CONTROL SAMPLE: 1340049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	103	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340050 1340051

Parameter	Units	92226122005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	4.4J	100	100	101	100	96	96	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340052 1340053

Parameter	Units	92226552002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	0.0092 mg/L	100	100	112	110	103	101	75-125	2	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21085 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

METHOD BLANK: 1340054 Matrix: Water
Associated Lab Samples: 92226122011, 92226122012, 92226122013, 92226122014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	8.0	12/02/14 14:44	

LABORATORY CONTROL SAMPLE: 1340055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	105	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340056 1340057

Parameter	Units	92226197002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	49.2	80.0	47	77	75-125	48	M1,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340058 1340059

Parameter	Units	92226660007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	0.0043J mg/L	100	100	ND	5.1J	-1	1	75-125		M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92226122

QC Batch: WETA/21086 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

METHOD BLANK: 1340060 Matrix: Water
Associated Lab Samples: 92226122015, 92226122016, 92226122017, 92226122018, 92226122019, 92226122020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	8.0	12/02/14 15:12	

LABORATORY CONTROL SAMPLE: 1340061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	102	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340062 1340063

Parameter	Units	92226500002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	104	106	99	101	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340064 1340065

Parameter	Units	92226122017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cyanide	ug/L	ND	100	100	98.3	97.4	95	94	75-125	1	

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QUALIFIERS

Project: OSR
Pace Project No.: 92226122

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92226122001	**3412-MW3R**		FLD/		
92226122002	**3412-MW7**		FLD/		
92226122005	**3412-MW1R**		FLD/		
92226122006	**3412-MW4R**		FLD/		
92226122007	**3412-MW5R**		FLD/		
92226122008	**3412-MW8**		FLD/		
92226122009	**3412-MW9**		FLD/		
92226122010	**3412-MW14**		FLD/		
92226122011	**3412-MW10**		FLD/		
92226122012	**3412-MW11**		FLD/		
92226122013	**3412-MW12**		FLD/		
92226122014	**3412-MW13**		FLD/		
92226122015	**3412-MW15**		FLD/		
92226122016	**3412-MW2R**		FLD/		
92226122017	**3412-SW3**		FLD/		
92226122018	**3412-SW2**		FLD/		
92226122019	**3412-SW4**		FLD/		
92226122020	**3412-SW1**		FLD/		
92226122005	**3412-MW1R**	EPA 3510	OEXT/31266	EPA 8081	GCSV/19595
92226122006	**3412-MW4R**	EPA 3510	OEXT/31266	EPA 8081	GCSV/19595
92226122015	**3412-MW15**	EPA 3510	OEXT/31355	EPA 8081	GCSV/19654
92226122016	**3412-MW2R**	EPA 3510	OEXT/31355	EPA 8081	GCSV/19654
92226122005	**3412-MW1R**	EPA 8151	OEXT/19807	EPA 8151	GCSV/13026
92226122006	**3412-MW4R**	EPA 8151	OEXT/19807	EPA 8151	GCSV/13026
92226122015	**3412-MW15**	EPA 8151	OEXT/19807	EPA 8151	GCSV/13026
92226122016	**3412-MW2R**	EPA 8151	OEXT/19807	EPA 8151	GCSV/13026
92226122001	**3412-MW3R**	EPA 3010	MPRP/17392	EPA 6010	ICP/15674
92226122002	**3412-MW7**	EPA 3010	MPRP/17392	EPA 6010	ICP/15674
92226122005	**3412-MW1R**	EPA 3010	MPRP/17392	EPA 6010	ICP/15674
92226122006	**3412-MW4R**	EPA 3010	MPRP/17392	EPA 6010	ICP/15674
92226122007	**3412-MW5R**	EPA 3010	MPRP/17392	EPA 6010	ICP/15674
92226122008	**3412-MW8**	EPA 3010	MPRP/17392	EPA 6010	ICP/15674
92226122009	**3412-MW9**	EPA 3010	MPRP/17392	EPA 6010	ICP/15674
92226122010	**3412-MW14**	EPA 3010	MPRP/17392	EPA 6010	ICP/15674
92226122011	**3412-MW10**	EPA 3010	MPRP/17410	EPA 6010	ICP/15687
92226122012	**3412-MW11**	EPA 3010	MPRP/17410	EPA 6010	ICP/15687
92226122013	**3412-MW12**	EPA 3010	MPRP/17410	EPA 6010	ICP/15687
92226122014	**3412-MW13**	EPA 3010	MPRP/17410	EPA 6010	ICP/15687
92226122015	**3412-MW15**	EPA 3010	MPRP/17416	EPA 6010	ICP/15696
92226122016	**3412-MW2R**	EPA 3010	MPRP/17416	EPA 6010	ICP/15696
92226122017	**3412-SW3**	EPA 3010	MPRP/17416	EPA 6010	ICP/15696
92226122018	**3412-SW2**	EPA 3010	MPRP/17416	EPA 6010	ICP/15696
92226122019	**3412-SW4**	EPA 3010	MPRP/17416	EPA 6010	ICP/15696
92226122020	**3412-SW1**	EPA 3010	MPRP/17416	EPA 6010	ICP/15696
92226122001	**3412-MW3R**	EPA 7470	MERP/7328	EPA 7470	MERC/7040

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92226122002	**3412-MW7**	EPA 7470	MERP/7328	EPA 7470	MERC/7040
92226122005	**3412-MW1R**	EPA 7470	MERP/7328	EPA 7470	MERC/7040
92226122006	**3412-MW4R**	EPA 7470	MERP/7328	EPA 7470	MERC/7040
92226122007	**3412-MW5R**	EPA 7470	MERP/7328	EPA 7470	MERC/7040
92226122008	**3412-MW8**	EPA 7470	MERP/7328	EPA 7470	MERC/7040
92226122009	**3412-MW9**	EPA 7470	MERP/7332	EPA 7470	MERC/7046
92226122010	**3412-MW14**	EPA 7470	MERP/7332	EPA 7470	MERC/7046
92226122011	**3412-MW10**	EPA 7470	MERP/7332	EPA 7470	MERC/7046
92226122012	**3412-MW11**	EPA 7470	MERP/7332	EPA 7470	MERC/7046
92226122013	**3412-MW12**	EPA 7470	MERP/7332	EPA 7470	MERC/7046
92226122014	**3412-MW13**	EPA 7470	MERP/7332	EPA 7470	MERC/7046
92226122015	**3412-MW15**	EPA 7470	MERP/7338	EPA 7470	MERC/7049
92226122016	**3412-MW2R**	EPA 7470	MERP/7338	EPA 7470	MERC/7049
92226122017	**3412-SW3**	EPA 7470	MERP/7338	EPA 7470	MERC/7049
92226122018	**3412-SW2**	EPA 7470	MERP/7338	EPA 7470	MERC/7049
92226122019	**3412-SW4**	EPA 7470	MERP/7338	EPA 7470	MERC/7049
92226122020	**3412-SW1**	EPA 7470	MERP/7338	EPA 7470	MERC/7049
92226122005	**3412-MW1R**	EPA 3510	OEXT/31247	EPA 8270	MSSV/9961
92226122006	**3412-MW4R**	EPA 3510	OEXT/31247	EPA 8270	MSSV/9961
92226122015	**3412-MW15**	EPA 3510	OEXT/31368	EPA 8270	MSSV/10005
92226122016	**3412-MW2R**	EPA 3510	OEXT/31368	EPA 8270	MSSV/10005
92226122001	**3412-MW3R**	EPA 8260	MSV/29314		
92226122002	**3412-MW7**	EPA 8260	MSV/29314		
92226122003	**3412-Equipment Blank**	EPA 8260	MSV/29314		
92226122004	**3412-Trip Blank**	EPA 8260	MSV/29314		
92226122005	**3412-MW1R**	EPA 8260	MSV/29331		
92226122006	**3412-MW4R**	EPA 8260	MSV/29331		
92226122007	**3412-MW5R**	EPA 8260	MSV/29331		
92226122008	**3412-MW8**	EPA 8260	MSV/29331		
92226122009	**3412-MW9**	EPA 8260	MSV/29331		
92226122010	**3412-MW14**	EPA 8260	MSV/29331		
92226122011	**3412-MW10**	EPA 8260	MSV/29348		
92226122012	**3412-MW11**	EPA 8260	MSV/29348		
92226122013	**3412-MW12**	EPA 8260	MSV/29348		
92226122014	**3412-MW13**	EPA 8260	MSV/29348		
92226122015	**3412-MW15**	EPA 8260	MSV/29383		
92226122016	**3412-MW2R**	EPA 8260	MSV/29383		
92226122017	**3412-SW3**	EPA 8260	MSV/29383		
92226122018	**3412-SW2**	EPA 8260	MSV/29383		
92226122019	**3412-SW4**	EPA 8260	MSV/29383		
92226122020	**3412-SW1**	EPA 8260	MSV/29383		
92226122001	**3412-MW3R**	SM 2320B	WET/34348		
92226122002	**3412-MW7**	SM 2320B	WET/34348		
92226122005	**3412-MW1R**	SM 2320B	WET/34448		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92226122006	**3412-MW4R**	SM 2320B	WET/34448		
92226122007	**3412-MW5R**	SM 2320B	WET/34481		
92226122008	**3412-MW8**	SM 2320B	WET/34481		
92226122009	**3412-MW9**	SM 2320B	WET/34481		
92226122010	**3412-MW14**	SM 2320B	WET/34481		
92226122011	**3412-MW10**	SM 2320B	WET/34522		
92226122012	**3412-MW11**	SM 2320B	WET/34522		
92226122013	**3412-MW12**	SM 2320B	WET/34522		
92226122014	**3412-MW13**	SM 2320B	WET/34522		
92226122015	**3412-MW15**	SM 2320B	WET/34524		
92226122016	**3412-MW2R**	SM 2320B	WET/34524		
92226122017	**3412-SW3**	SM 2320B	WET/34524		
92226122018	**3412-SW2**	SM 2320B	WET/34524		
92226122019	**3412-SW4**	SM 2320B	WET/34524		
92226122020	**3412-SW1**	SM 2320B	WET/34524		
92226122001	**3412-MW3R**	SM 2540C	WET/34396		
92226122002	**3412-MW7**	SM 2540C	WET/34396		
92226122005	**3412-MW1R**	SM 2540C	WET/34432		
92226122006	**3412-MW4R**	SM 2540C	WET/34432		
92226122007	**3412-MW5R**	SM 2540C	WET/34432		
92226122008	**3412-MW8**	SM 2540C	WET/34432		
92226122009	**3412-MW9**	SM 2540C	WET/34432		
92226122010	**3412-MW14**	SM 2540C	WET/34433		
92226122011	**3412-MW10**	SM 2540C	WET/34461		
92226122012	**3412-MW11**	SM 2540C	WET/34461		
92226122013	**3412-MW12**	SM 2540C	WET/34461		
92226122014	**3412-MW13**	SM 2540C	WET/34461		
92226122015	**3412-MW15**	SM 2540C	WET/34469		
92226122016	**3412-MW2R**	SM 2540C	WET/34469		
92226122017	**3412-SW3**	SM 2540C	WET/34469		
92226122018	**3412-SW2**	SM 2540C	WET/34469		
92226122019	**3412-SW4**	SM 2540C	WET/34469		
92226122020	**3412-SW1**	SM 2540C	WET/34469		
92226122001	**3412-MW3R**	SM 4500-S2D	WET/34369		
92226122002	**3412-MW7**	SM 4500-S2D	WET/34369		
92226122005	**3412-MW1R**	SM 4500-S2D	WET/34369		
92226122006	**3412-MW4R**	SM 4500-S2D	WET/34369		
92226122007	**3412-MW5R**	SM 4500-S2D	WET/34369		
92226122008	**3412-MW8**	SM 4500-S2D	WET/34369		
92226122009	**3412-MW9**	SM 4500-S2D	WET/34369		
92226122010	**3412-MW14**	SM 4500-S2D	WET/34369		
92226122011	**3412-MW10**	SM 4500-S2D	WET/34421		
92226122012	**3412-MW11**	SM 4500-S2D	WET/34421		
92226122013	**3412-MW12**	SM 4500-S2D	WET/34421		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92226122014	**3412-MW13**	SM 4500-S2D	WET/34421		
92226122015	**3412-MW15**	SM 4500-S2D	WET/34421		
92226122016	**3412-MW2R**	SM 4500-S2D	WET/34421		
92226122017	**3412-SW3**	SM 4500-S2D	WET/34429		
92226122018	**3412-SW2**	SM 4500-S2D	WET/34421		
92226122019	**3412-SW4**	SM 4500-S2D	WET/34421		
92226122020	**3412-SW1**	SM 4500-S2D	WET/34421		
92226122001	**3412-MW3R**	EPA 300.0	WETA/21011		
92226122002	**3412-MW7**	EPA 300.0	WETA/21011		
92226122005	**3412-MW1R**	EPA 300.0	WETA/21103		
92226122006	**3412-MW4R**	EPA 300.0	WETA/21103		
92226122007	**3412-MW5R**	EPA 300.0	WETA/21103		
92226122008	**3412-MW8**	EPA 300.0	WETA/21103		
92226122009	**3412-MW9**	EPA 300.0	WETA/21103		
92226122010	**3412-MW14**	EPA 300.0	WETA/21103		
92226122011	**3412-MW10**	EPA 300.0	WETA/21135		
92226122012	**3412-MW11**	EPA 300.0	WETA/21135		
92226122013	**3412-MW12**	EPA 300.0	WETA/21135		
92226122014	**3412-MW13**	EPA 300.0	WETA/21135		
92226122015	**3412-MW15**	EPA 300.0	WETA/21135		
92226122016	**3412-MW2R**	EPA 300.0	WETA/21135		
92226122017	**3412-SW3**	EPA 300.0	WETA/21204		
92226122018	**3412-SW2**	EPA 300.0	WETA/21204		
92226122019	**3412-SW4**	EPA 300.0	WETA/21204		
92226122020	**3412-SW1**	EPA 300.0	WETA/21204		
92226122001	**3412-MW3R**	SM 4500-Cl-E	WETA/21095		
92226122002	**3412-MW7**	SM 4500-Cl-E	WETA/21095		
92226122005	**3412-MW1R**	SM 4500-Cl-E	WETA/21096		
92226122006	**3412-MW4R**	SM 4500-Cl-E	WETA/21096		
92226122007	**3412-MW5R**	SM 4500-Cl-E	WETA/21096		
92226122008	**3412-MW8**	SM 4500-Cl-E	WETA/21096		
92226122009	**3412-MW9**	SM 4500-Cl-E	WETA/21096		
92226122010	**3412-MW14**	SM 4500-Cl-E	WETA/21096		
92226122011	**3412-MW10**	SM 4500-Cl-E	WETA/21096		
92226122012	**3412-MW11**	SM 4500-Cl-E	WETA/21096		
92226122013	**3412-MW12**	SM 4500-Cl-E	WETA/21097		
92226122014	**3412-MW13**	SM 4500-Cl-E	WETA/21097		
92226122015	**3412-MW15**	SM 4500-Cl-E	WETA/21098		
92226122016	**3412-MW2R**	SM 4500-Cl-E	WETA/21098		
92226122017	**3412-SW3**	SM 4500-Cl-E	WETA/21098		
92226122018	**3412-SW2**	SM 4500-Cl-E	WETA/21098		
92226122019	**3412-SW4**	SM 4500-Cl-E	WETA/21098		
92226122020	**3412-SW1**	SM 4500-Cl-E	WETA/21098		

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92226122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92226122001	**3412-MW3R**	SM 4500-CN-E	WETA/21031		
92226122002	**3412-MW7**	SM 4500-CN-E	WETA/21031		
92226122005	**3412-MW1R**	SM 4500-CN-E	WETA/21084		
92226122006	**3412-MW4R**	SM 4500-CN-E	WETA/21084		
92226122007	**3412-MW5R**	SM 4500-CN-E	WETA/21084		
92226122008	**3412-MW8**	SM 4500-CN-E	WETA/21084		
92226122009	**3412-MW9**	SM 4500-CN-E	WETA/21084		
92226122010	**3412-MW14**	SM 4500-CN-E	WETA/21084		
92226122011	**3412-MW10**	SM 4500-CN-E	WETA/21085		
92226122012	**3412-MW11**	SM 4500-CN-E	WETA/21085		
92226122013	**3412-MW12**	SM 4500-CN-E	WETA/21085		
92226122014	**3412-MW13**	SM 4500-CN-E	WETA/21085		
92226122015	**3412-MW15**	SM 4500-CN-E	WETA/21086		
92226122016	**3412-MW2R**	SM 4500-CN-E	WETA/21086		
92226122017	**3412-SW3**	SM 4500-CN-E	WETA/21086		
92226122018	**3412-SW2**	SM 4500-CN-E	WETA/21086		
92226122019	**3412-SW4**	SM 4500-CN-E	WETA/21086		
92226122020	**3412-SW1**	SM 4500-CN-E	WETA/21086		

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Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-003-rev.15	Issuing Authority: Pace Huntersville Quality Office

Client Name: HDR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun (T1401) Type of Ice: (Wet) Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 1.3 °C Biological Tissue is Frozen: Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JMW 11-18-14

Comments:

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:_____	☐Yes ☒No ☐N/A	12. Sample 2 ID = MW-7 Sample 3 = Equipment Blank 11/17/14 10:45
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13. Sample 4 = Trip Blank
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes ☐No	
Samples checked for dechlorination:	☒Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16. No time/date
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JJ Date: 11/18/14

SRF Review: JJ Date: 11/19/14

WO#: 92226122

92226122

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1886811

Section A Required Client Information:

Company:	HDR
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Eric Wright
Copy To:	
Purchase Order No.:	
Project Name:	OSR
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	K. Godwin
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	App1 8260 + TTHF	6010/7470 + Na Fe Mn	App2 SVOC	8081	8151	Cyanide	Sulfide	NH3	Chloride	TDS	Sulfate	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW3R			11-17-14	1400														✓	✓				✓	✓	✓	✓	✓				001
2	MW-7			11-17-14	1545														✓	✓				✓	✓	✓	✓	✓				002
3	Equipment Blank			11-17-14	1045																									✓		003
4	Trip Blank			11-17-14	1045																									✓		004
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[illegible] / Pace	11-17-14	1900	[illegible] PACE	11-18-14	1022				
	[illegible] PACE	11-18-14	1600	Jacelyn Wilson PACE	11-18-14	1600	1.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-003-rev.15	Issuing Authority: Pace Huntersville Quality Office

Client Name: HDR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 3.2 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: H 11-19-14

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	AP 11-19 ☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	AP 11-19 ☑Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☐Yes ☑No ☐N/A	12. No dates or times on bottles
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: VJ Date: 11/19/14

SRF Review: AMB Date: 11-20-14

Place label here

92226/22 OR

Handwrite project number (if no label available)

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1886811

Section A Required Client Information:

Company: HDR
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Eric Wright
Copy To:
Purchase Order No.:
Project Name: OSR
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: K. Godwin
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/GRAB DATE	COLLECTED Composite End/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	App1 8260 + THF	6010/7470 + Na, Fe, Mn	App2 SVOC	8081	8151	Cyanide	Sulfate	TKN	Chloride	TDS	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1R			11-18-14	1103													✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			005
2	MW-5R			11-18-14	1230													✓	✓				✓	✓	✓	✓	✓			007
3	MW-4R			11-18-14	1304													✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			006
4	MW-8			11-18-14	1406													✓	✓				✓	✓	✓	✓	✓			008
5	MW-9			11-18-14	1455													✓	✓				✓	✓	✓	✓	✓			009
6	MW-14			11-18-14	1515													✓	✓				✓	✓	✓	✓	✓			010
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	D. Gardner Pace	11-18-14	1905	Nicole Clemmice	11/18/14	1905				
	Nicole Clemmice	11/19/14	0942	Seth Pace	11-19-14	0942				
	Seth Pace	11-19-14	1626	Seth Pace	11-19-14	1626	1.9	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

Client Name: HDR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ (Pace) Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun (T1401) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: 1.7 °C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CE 11/20/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used: CE 11/20	☑Yes (☐No) ☐N/A	9. #4 = Alk/Chloride/sulfate is in AG1U
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [illegible] Date: 11/20/14

SRF Review: AMB Date: 11-25-14

Place label here

92226122

OR

Handwrite project number (if no label available)

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1886811

Section A Required Client Information:

Company: HDR
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Eric Wright
Copy To:
Purchase Order No.:
Project Name: OSR
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: K. Godwin
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): App1 8260 + THF	6010/7470 + Na, Fe, Mn	App2 SVOC	8021	8151	Cyanide	Sulfide	Alk	Chloride	TDS	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW# 10			11-19-14	1139													✓	✓				✓	✓	✓	✓	✓	✓		011
2	MW# 11			11-19-14	1241													✓	✓				✓	✓	✓	✓	✓	✓		012
3	MW# 12			11-19-14	1320													✓	✓				✓	✓	✓	✓	✓	✓		013
4	MW#13			11-19-14	1425													✓	✓				✓	✓	✓	✓	✓	✓		014
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	D Gardner	11-19-14	1930	[illegible]	11-20-14	1015				
	[illegible]	11-20-14	1516	[illegible]	11-20-14	1516	1.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: September 22, 2011 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.15**	Issuing Authority: Pace Huntersville Quality Office

Client Name: MDR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: 1.3 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CMF 11/21/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☐Yes ☑No ☐N/A	8. lt 2-6 BP3U for SO4 AIK. Chloride
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. no date/time on bottle
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JJ Date: 11/21/14

SRF Review: AMB Date: 11-25-14

Place label here

92226122

OR

Handwrite project number (if no label available)

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1886811

Section A Required Client Information:

Company: HDR
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Eric Wright
Copy To:
Purchase Order No.:
Project Name: OSR
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: K. Godwin
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): App I 8260 + THF	6010 / 7470 + Na Fe Mn	App 2 SVOC	8081	8151	Cyanide	Sulfide	NH3	Chloride	TDS	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92226122
1	MW #-15			11-20-14	1055													/	/	/	/	/	/	/	/	/	/			015
2	MW-2R			11-20-14	1154													/	/	/	/	/	/	/	/	/	/			016
3	SW-3			11-20-14	1215													/	/				/	/	/	/	/			017
4	SW-2			11-20-14	1255													/	/				/	/	/	/	/			018
5	SW-4			11-20-14	1325													/	/				/	/	/	/	/			019
6	SW-1			11-20-14	1400													/	/				/	/	/	/	/			020
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
MW-2R- Limited Sample	Brandon Pace	11-20-14	1630	[signature] Pace	11-21-14	0845	
	[signature] Pace dk	11-21-14	1425	[signature]	11/21/14	14:25	1.3

ORIGINAL

SAMPLER NAME AND SIGNATURE

C

Appendix C – Field Data

Location Winston-Salem NC Date 11/17/14

Project / Client OSR / HDR

NB#110414

TIME	WellID	Depth (ft)
10:57	MW-8	18.79
11:05	MW-9	52.37
11:12	MW-14	51.90
11:19	MW-10	12.34
11:27	MW-11	2.70
11:32	MW-12	5.38
11:40	MW-13	9.24
11:47	MW-15	39.50
11:55	MW-2R	8.59
12:11	MW-1R	34.85
12:21	MW-5R	11.18
12:35	MW-4R	9.20
12:42	MW-7	36.90
12:51	MW-3R	21.87

Equip Blank @ 11/17/14 @ 1045 HRS

Location Winston-Salem Date 11/17/14

Project / Client CSR / HDR

TIME MW-13
11:39
CH_4% = 00.0
CO_2% = 2.7
O_2% = 19.4
Bal% 77.8

TIME MW-2R
1:00
CH_4% = 00.0
CO_2% = 00.6
O_2% = 21.2
Bal% = 77.8

TIME MW-15
11:46
CH_4% = 00.0
CO_2% = 00.2
O_2% = 21.2
Bal% = 78.6

TIME = 1R
2:13 [illegible]
CH_4% = 00.0
CO_2% = 00.1
O_2% = 21.5
Bal% = 78.3

TIME MW-1
1:52
CH_4% = 00.0
CO_2% = 3.4
O_2% = 19.0
Bal% = 77.4

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information
Well ID: MW-1R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 60 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 34.85 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information
Date Purged: 11/18/14 Time Start: 1050 Finish: 1102 Purge Rate: 400 ml/min
Purging Method: QED Micro Purge Total Volume Purged: 1.6 gallons

Sampling Information
Date Sample Collected: 11/18/14 Time Sample Collected: 1103 (am) pm
Sampling Equipment Used: QED Micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/Chloride/Alk/TDS
1-125ml/1-125ml	NaOH/Zn Acet & NaOH	Cyanide/Sulfide
6-1L Amber Glass	None	8082/8081/8150

Field Measurements/Observations
Sample Temp. (°C): 14.8 Time: 1103
Sample pH (s.u.): 5.6 Time: 1103
Specific Cond. (uS): 138 Time: 1103
ReDox (mV): 194 Time: 1103
Odor: None
Turbidity (ntu): 1.7 Time: 1103
Dis. Oxy. (mg/L): 1.0 Time: 1103
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Clear
General Observations:

Weather Conditions: Cold / Windy ~ 30°F

Sampler Signature: David Sanders Date: 11/18/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1050	5.6	138	174	1.6	1.90	14.8	1200	
1053	5.6	138	179	1.6	1.7	14.8	2400	
1056	5.6	139	184	1.6	1.3	14.8	3600	
1059	5.6	139	188	1.6	1.1	14.8	4800	
1102	5.7	138	183	1.6	1.0	14.8	6000	

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-2R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 21 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 8.59 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information

Date Purged: 11/19/14 Time Start: 1515 Finish: 1530 Purge Rate: 100 ml/min
Purging Method: QED micro Purge Total Volume Purged: .95 gallons

Sampling Information

Date Sample Collected: 11/20/14 Time Sample Collected: 1154 (am) pm
Sampling Equipment Used: QED micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	metals
1-250/1-500 ml	None	Sulfate/chloride/Alk/TDS
1-125ml/1-125ml	NaOH/Zn Acet & NaOH	Cyanide/Sulfide
4-1L Amber	None	5000/8081/8150

Field Measurements/Observations 11-19-14

Sample Temp. (°C): 13.2 Time: 1530 Turbidity (ntu): 3.53 Time: 1530
Sample pH (s.u.): 6.1 Time: 1530 Dis. Oxy. (mg/L): 0.5 Time: 1530
Specific Cond. (uS): 1150 Time: 1530 Res. Cl (mg/L): ✓ Time: ✓
ReDox (mV): 38 Time: 1530 Other: Time:
Odor: None Appearance:
General Observations: Limited Volume - Field Readings from Purge
Weather Conditions: Cold/windy
Sampler Signature: David Stauber Date: 11/20/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp (°C)	Volume Removed (gals.)	Other
1520	6.1	1170	41	4.6	14.4	0.5	120	
1523	6.1	1160	36	5.76	14.3	0.5	240	
1530	6.1	1150	38	3.53	13.2	0.5	360	

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information
Well ID: MW-3R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 27 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 21.87 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information
Date Purged: 11/17/14 Time Start: 1320 Finish: 1344 Purge Rate: 400 ml/min
Purging Method: QED micro Purge Total Volume Purged: 2.5 gallons

Sampling Information
Date Sample Collected: 11/17/14 Time Sample Collected: 1400 am (pm)
Sampling Equipment Used: QED Micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/Chloride/Alk/TDS
1-125ml/1-125ml	NaOH/Zn Acet & NaOH	Cyanide/Sulfide

Field Measurements/Observations
Sample Temp. (°C): 13.2 Time: 1400
Sample pH (s.u.): 6.0 Time: 1400
Specific Cond. (uS): 363 Time: 1400
ReDox (mV): 13 Time: 1400
Odor: None
Turbidity (ntu): 5.2 Time: 1400
Dis. Oxy. (mg/L): 6.3 Time: 1400
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Clear
General Observations:

Weather Conditions: Rain ~ 55°F

Sampler Signature: David Sawyer Date: 11/17/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1323	6.1	314	45	19.0	8.2	13.3	1200	
1326	6.1	324	43	17.3	7.6	13.3	2400	
1329	6.1	339	37	16.0	7.1	13.3	3600	
1332	6.6	345	33	13.0	6.8	13.3	4800	
1335	6.0	355	25	10.0	7.2	13.2	6000	

Client: HDR

Location: Winston-Salem NC

Project: OSR DATE 11/17/14

Well ID: MW-3R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
13:38	6.0	362	15	7	6.5	13.3	7200
13:41	6.0	363	14	7	6.5	13.3	8400
13:44	6.0	365	13	5	6.8	13.3	9600

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-4R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 20 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 9.20 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information

Date Purged: 11/18/14 Time Start: 1240 Finish: 1304 Purge Rate: 400 mls/min
Purging Method: QED Micro Purge Total Volume Purged: 2.9 gallons

Sampling Information

Date Sample Collected: 11/18/14 Time Sample Collected: 1304 am (pm)
Sampling Equipment Used: QED Micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/chloride / Alk / TDS
1-125ml / 1-125ml	NaOH/Zn Act & NaOH	Cyanide / Sulfide
6-1L Amber Glass	None	8000 / 8081 / 8150

Field Measurements/Observations

Sample Temp. (°C): 13.7 Time: 1304
Sample pH (s.u.): 5.9 Time: 1304
Specific Cond. (uS): 971 Time: 1304
ReDox (mV): 158 Time: 1304
Odor: None
Turbidity (ntu): 10.0 Time: 1304
Dis. Oxy. (mg/L): 0.5 Time: 1304
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Clear
General Observations:

Weather Conditions: Cold / Windy ~ 30°F

Sampler Signature: David Sandon Date: 11/18/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1240	6.0	934	165	150	0.5	13.8	1200	
1243	5.9	944	159	115.4	0.5	13.6	2400	
1246	5.8	959	160	48.6	0.5	13.8	3600	
1249	5.9	960	160	31.0	0.0	13.8	4800	
1252	5.9	962	159	20.8	0.0	13.8	6000	

MW 4R

Client: HDR

Location: Winston/Salem

Project: OSR DATE 11-18-14

Well ID: MW 4R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
1255	5.9	968	159	18	0.0	13.7	7200
1258	5.9	969	159	14.9	0.0	13.8	8400
1301	5.9	969	159	11.9	0.0	13.7	9600
1304	5.9	971	158	10.0	0.0	13.7	10800

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5'	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW 5R Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 30 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 11.18 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information

Date Purged: 11/18/14 Time Start: 1205 Finish: 1225 Purge Rate: 400 ml/min
Purging Method: QED Micro Purge Total Volume Purged: 1.6 gallons

Sampling Information

Date Sample Collected: 11/18/14 Time Sample Collected: 1230 am (pm)
Sampling Equipment Used: QED Micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/Chloride/Alk/TDS
1-125ml/1-125ml	NaOH/Zn Acet & NaOH	Cyanide/Sulfide

Field Measurements/Observations

Sample Temp. (°C): 12.9 Time: 1230
Sample pH (s.u.): 6.0 Time: 1230
Specific Cond. (uS): 184 Time: 1230
ReDox (mV): 198 Time: 1230
Odor: None
Turbidity (ntu): 3.6 Time: 1230
Dis. Oxy. (mg/L): 5.0 Time: 1230
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Clear
General Observations:

Weather Conditions: Cold / Windy ~ 30°F

Sampler Signature: David Sanders Date: 11/18/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1210	5.7	187	206	3.6	5.3	12.7	1200	
1213	6.0	187	197	3.6	5.2	12.7	2400	
1216	6.0	185	198	3.6	5.0	12.8	3600	
1219	5.9	184	197	3.6	4.8	12.9	4800	
1221	6.0	184	198	3.6	4.9	12.9	6000	

PaceAnalytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-7 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 48 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 36.90 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information

Date Purged: 11/17/14 Time Start: 1515 Finish: 1533 Purge Rate: 400 ml/min
Purging Method: QED Micro Purge Total Volume Purged: 1.9 gallons

Sampling Information

Date Sample Collected: 11/17/14 Time Sample Collected: 1545 am (pm)
Sampling Equipment Used: QED Micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/Chloride/Alk/TDS
1-125ml/1-125ml	NaOH/Zn Acet & NaOH	Cyanide/Sulfide

Field Measurements/Observations

Sample Temp. (°C): 13.7 Time: 1545
Sample pH (s.u.): 5.6 Time: 1545
Specific Cond. (uS): 186 Time: 1545
ReDox (mV): 184 Time: 1545
Odor: None
Turbidity (ntu): 1.2 Time: 1545
Dis. Oxy. (mg/L): 0.5 Time: 1545
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Clear

General Observations: Refill - 10 sec
Disch. 5 sec

Weather Conditions: ~55°F / Rain / overcast

Sampler Signature: David Sanders Date: 11/17/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1518	5.4	180	142	2.6	1.6	13.7	1200	
1521	5.6	184	164	1.1	0.5	13.7	2400	
1524	5.6	185	170	1.2	0.5	13.7	3600	
1527	5.6	185	178	1.0	0.5	13.7	4800	
1530	5.6	186	182	1.0	0.5	13.7	6000	

Client: HDR

Location: Winston - Salem, NC

Project: OSR DATE 11/17/14

Well ID: ~~020~~ MW-7

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
15:33	5.16	186	183	1.0	0.5	13.7	7200

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW #8 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 27 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 18.79 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information

Date Purged: 11/18/14 Time Start: 1351 Finish: 1406 Purge Rate: 400 mls/min
Purging Method: QED Micro Purge Total Volume Purged: ~~2200~~ 1.9 gallons

Sampling Information

Date Sample Collected: 11/18/14 Time Sample Collected: 1406 am (pm)
Sampling Equipment Used: QED Micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/chloride/Alk/TDS
1-125ml/1-125ml	NaOH/Zn Act + NaOH	Cyanide/Sulfide

Field Measurements/Observations

Sample Temp. (°C): 13.0 Time: 1406
Sample pH (s.u.): 5.7 Time: 1406
Specific Cond. (uS): 59 Time: 1406
ReDox (mV): 224 Time: 1406
Odor: Non
Turbidity (ntu): 9.1 Time: 1406
Dis. Oxy. (mg/L): 2.3 Time: 1406
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Clear
General Observations:
Weather Conditions: Cold / Windy ~ 30°F

Sampler Signature: David Sauber Date: 11/18/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1351	5.6	58	217	15.1	3.0	14.4	1200	
1354	5.6	59	218	13.8	3.0	14.4	2400	
1357	5.6	59	218	21.0	2.9	14.2	3600	
1400	5.7	61	219	19.4	2.9	14.2	4800	
1403	5.7	59	222	15.6	2.7	13.5	6000	

MW #8

Client: HDR
Location: Winston/Salem
Project: OSR DATE 11-18-14
Well ID: MW #8

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
1406	5.7	59	224	9.1	2.3	13.00	7200
							~~8400~~
							~~9600~~
							~~10800~~

DG

PaceAnalytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW #9 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 60 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 52.37 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information

Date Purged: 11/18/14 Time Start: 1440 Finish: 1452 Purge Rate: 400 ml/min
Purging Method: QED micro Purge Total Volume Purged: 1.6 gallons

Sampling Information

Date Sample Collected: 11/18/14 Time Sample Collected: 1455 am (pm)
Sampling Equipment Used: QED micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/chloride/Alk/TDS
1-125ml/1-125ml	NaOH/Zn Acet & NaOH	Cyanide/Sulfide

Field Measurements/Observations

Sample Temp. (°C): 12.4 Time: 1455
Sample pH (s.u.): 5.5 Time: 1455
Specific Cond. (uS): 161 Time: 1455
ReDox (mV): 252 Time: 1455
Odor: None
Turbidity (ntu): 2.0 Time: 1455
Dis. Oxy. (mg/L): 8.3 Time: 1455
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Clear
General Observations:

Weather Conditions: Cold / Windy

Sampler Signature: David Sanders Date: 11/18/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1440	5.8	124	226	4.8	10.3	11.8	1200	
1443	5.6	143	238	2.1	9.4	12.3	2400	
1446	5.5	154	245	1.9	8.8	12.4	3600	
1449	5.5	160	250	1.9	8.5	12.4	4800	
1452	5.5	161	252	2.0	8.3	12.4	6000	

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-10

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston Salem Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG - Pace
Name & Affiliation (Inspector):

Well Information
Well ID: MW-10 Well Locked: (yes) no
Well Diameter: 2" Construction: PVC Steel Stainless Steel
Total Well Depth: 21.0 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 12.34 ft. Casing Volume: — gallons
Height of Water Col.: 8.66 ft. Cal. 3 Volumes: — gallons

Purge Information
Date Purged: 11/19/14 Time Start: 10:55 Finish: 11:41 Purge Rate: 400 ml/min
Purging Method: QED/micro Total Volume Purged: 120,000 ~~gallons~~ ml

Sampling Information
Date Sample Collected: 11/19/14 Time Sample Collected: 11:39 (am) pm
Sampling Equipment Used: QED micropurge

Bottle Type	Preservation	Analysis Required
3-40ml vials	HCL	8260 Appl + THF
1-250 HNO3 plastic	HNO3	Appl metals
1-250 NaOH plastic	NaOH	Cyanide
1L ~~plastic unpre~~	unpreserved	~~SAR~~, Cl, TDS
1500 unp	unpreserved	Sulfide
	7n Acetate/NaOH	

Field Measurements/Observations
Sample Temp. (°C): 15.3 Time: 11:39 Turbidity (ntu): 98 Time: 11:39
Sample pH (s.u.): 5.1 Time: 11:39 Dis. Oxy. (mg/L): Ø Time: 11:39
Specific Cond. (uS): 106 Time: 11:39 Res. Cl (mg/L): — Time: 11:39
ReDox (mV): 198 Time: 11:39 Other: Time:
Odor: none Appearance: Very Cloudy
General Observations: Water line frozen

Weather Conditions: Cold, Windy, Sunny

Sampler Signature: [signature] Date: 11/19/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1113	5.2	110	195	1130	Ø	15.0	1200 ml/s	
1116	5.2	109	195	622	0.59	15.1	2400 ml/s	
1119	5.2	108	195	370	Ø	15.2	3600 ml/s	
1124	5.2	108	196	238	Ø	15.1	4800 ml/s	
1127	5.2	108	193	249	Ø	15.1	6000 ml/s	

Client: HDR

Location: DSR

Project: DATE 11-19-14

Well ID: MW-10

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
11:30	5.2	107	195	180	Ø	15.1	7200
11:33	5.2	107	201	145	Ø	15.2	8400
11:36	5.2	107	199	122	Ø	15.1	9600
1139	5.2	106	198	106	Ø	15.0	10800
1141	5.1	106	198	98	Ø	15.3	12000

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-11

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem Project Name/#: OSR
Name & Affiliation (Sampler(s): PACE - DHG
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW-11 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 20.0 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 2.70 ft. Casing Volume: / gallons
Height of Water Col.: 17.3 ft. Cal. 3 Volumes: gallons

Purge Information

Date Purged: 11/19/14 Time Start: 1205 Finish: 1241 Purge Rate: 400 mls/min
Purging Method: QED micropurge Total Volume Purged: 132,000 mls gallons

Sampling Information

Date Sample Collected: 11/19/14 Time Sample Collected: 12:41 am (pm)
Sampling Equipment Used: QED micropurge

Bottle Type	Preservation	Analysis Required
3-40 ml vials	HCL	8260 - Appl + THF
250 ml	HNO_3	Appl metals + Na, Fe, Mn
250 ml	NaOH	Cyanide
250 ml	Zn Acetate/NaOH	Sulfide
1L & 500 ml	unpreserved	Alkalinity, SO4, Cl, TDS,

Field Measurements/Observations

Sample Temp. (°C): 15.4 Time: 1241 Turbidity (ntu): 9.9 Time: 1241
Sample pH (s.u.): 5.9 Time: 1241 Dis. Oxy. (mg/L): 0.5 Time: 1241
Specific Cond. (uS): 440 Time: 1241 Res. Cl (mg/L): / Time: /
ReDox (mV): -61 Time: 1241 Other: Time:
Odor: stagnant odor Appearance: solids - floating black onto
General Observations: sunny, cold, windy

Weather Conditions:

Sampler Signature: [signature] Date: 11/19/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1207	6.0	449	-35	122	0.65	15.0	1200 mls	
1210	6.0	443	-37	79.9	0.5	15.0	2400 mls	
1213	6.0	444	-44	82.9	0.5	15.1	3600 mls	
1216	6.0	446	-49	71.1	0.5	15.2	4800 mls	
1219	5.9	444	-49	60.7	0.5	15.2	6000 mls	

Client: HDR

Location: OSR - Winston Salem

Project: OSR DATE 11-19-14

Well ID: MW-11

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
1222	5.9	443	-54	41.3	0.5	15.3	7200
1225	6.0	442	-57	35.3	0.5	15.3	8400
1228	5.9	440	-57	24.9	0.5	15.4	9600
1235	6.0	441	-56	17.7	0.5	15.3	10800
1238	5.9	441	-59	15.5	0.5	15.4	120,000
1241	5.9	440	-61	9.9	0.5	15.4	132000

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-12

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston Salem Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG - PCCE
Name & Affiliation (Inspector):

Well Information
Well ID: MW-12 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 15.58 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 5.38 ft. Casing Volume: — gallons
Height of Water Col.: 10.2 ft. Cal. 3 Volumes: — gallons

Purge Information
Date Purged: 11/19/14 Time Start: 1303 Finish: 1320 Purge Rate: 400ml/min
Purging Method: QED/micropurge Total Volume Purged: ~~[illegible]~~ 1.6 gallons

Sampling Information
Date Sample Collected: 11/19/14 Time Sample Collected: 1320 am (pm)
Sampling Equipment Used: QED/microperge

Bottle Type	Preservation	Analysis Required
3-40 ml vials	HCL	8260 Appl + THF
~~[illegible]~~ 500 mL plastic	HNO3	metals Appll + Na, Fe, Mn
250 ml plastic	NaOH	cyanide
250 ml plastic	Zn acetate/NaOH	sulfide
1.5 L plastic	unpreserved	SO4, Alk, Cl, TDS

Field Measurements/Observations
Sample Temp. (°C): 15.4 Time: 1320
Sample pH (s.u.): 5.9 Time: 1320
Specific Cond. (uS): 203 Time: 1320
ReDox (mV): 101 Time: 1320
Odor: no
Turbidity (ntu): 5.2 Time: 1320
Dis. Oxy. (mg/L): 0.5 Time: 1320
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: ~~[illegible]~~ (Clear)
General Observations:

Weather Conditions: Sunny, windy cold

Sampler Signature: [signature] Date: 11/19/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1305	5.9	162	71	34.6	0.5	15.2	1200	
1310	5.9	175	82	29.5	0.5	15.2	2400	
1314	5.9	193	90	13.5	0.5	15.4	3600	
1317	5.9	199	99	10.0	0.5	15.4	4800	
1320	5.9	203	101	5.2	0.5	15.4	6000	

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-13

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston Salem Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG-Pace
Name & Affiliation (Inspector):

Well Information
Well ID: MW-13 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 20 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 9.24 ft. Casing Volume: ✓ gallons
Height of Water Col.: 10.76 ft. Cal. 3 Volumes: ✓ gallons

Purge Information
Date Purged: 11/19/14 Time Start: 1340 Finish: 1421 Purge Rate: 400ml/min
Purging Method: QED micropurge Total Volume Purged: 1.9 gallons

Sampling Information
Date Sample Collected: 11/19/14 Time Sample Collected: 1425 am (pm)
Sampling Equipment Used: QED

Bottle Type	Preservation	Analysis Required
3-40ml vials	HCL	8260 Appl +THF
250ml plastic	HNO3	App2 metals +Na, Fe, Mn
250ml plastic	NaOH	Cyanide
250ml plastic	Zn acetate/NaOH	~~Zn acetate~~ sulfide
1.5L plastic	unpreserved	SO4, Cl, Alk, TDS

Field Measurements/Observations

Sample Temp. (°C):	13.8	Time: 1425	Turbidity (ntu):	152	Time: 1425
Sample pH (s.u.):	5.6	Time: 1425	Dis. Oxy. (mg/L):	0.5	Time: 1425
Specific Cond. (uS):	120	Time: 1425	Res. Cl (mg/L):		Time:
ReDox (mV):	232	Time: 1425	Other:		Time:
Odor:	none		Appearance:	Cloudy	

General Observations: water line frozen

Weather Conditions: sunny, windy, cold

Sampler Signature: D Gam Date: 11/19/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1350	5.5	116	218	749	2.4	14.7	1200	
1355	5.5	118	223	639	1.1	14.3	2400	
1401	5.6	123	222	218	0.5	13.9	3600	
1406	5.6	122	223	215	0.5	14.0	4800	
1411	5.6	122	224	180	0.5	13.7	6000	

Client: HDR

Location: Winston Salem

Project: OSR DATE 11-19-14

Well ID: MW-13

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
1421	5.6	120	232	152	0.5	13.8	7200

Pace Analytical

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG / Pace
Name & Affiliation (Inspector): N/A

Well Information

Well ID: MW#14 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 60 ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 51.90 ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information

Date Purged: 11/18/14 Time Start: 1510 Finish: 1535 Purge Rate: 400 mls/min
Purging Method: QED Micro Purge Total Volume Purged: 2.3 gallons

Sampling Information

Date Sample Collected: 11/18/14 Time Sample Collected: 1535 am (pm)
Sampling Equipment Used: QED Micro Purge

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/Chloride/Alk/TDS
1-125ml/1-125ml	NaOH/Zn Acet & NaOH	Cyanide/Sulfide

Field Measurements/Observations

Sample Temp. (°C): 11.9 Time: 1535
Sample pH (s.u.): 5.6 Time: 1535
Specific Cond. (uS): 159 Time: 1535
ReDox (mV): 242 Time: 1535
Odor: None
Turbidity (ntu): 7.8 Time: 1535
Dis. Oxy. (mg/L): 3.8 Time: 1535
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Clear

General Observations:

Weather Conditions: Windy / Cold

Sampler Signature: David Sauder Date: 11/18/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1515	5.9	145	211	8.0	7.1	12.1	1200	
1518	5.6	150	230	13.1	4.9	12.0	2400	
1521	5.6	152	234	29.5	4.5	12.0	3600	
1524	5.6	156	237	17.7	4.4	12.0	4800	
1527	5.6	155	240	19.6	4.2	12.0	6000	

MW #14

Client: HDR

Location: Winston/Salem

Project: OSR DATE 11-18-14

Well ID: # 14

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
1530	5.6	153	245	12.5	4.4	11.9	7200
1533	5.6	159	242	7.18	3.8	11.9	8600
							~~9800~~ 10800 DC

Pace Analytical®

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

MW-15

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston Salem Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG - PACE
Name & Affiliation (Inspector):

Well Information
Well ID: MW-15 Well Locked: (yes) no
Well Diameter: 2" Construction: (PVC) Steel Stainless Steel
Total Well Depth: 50.85 ft. Multi. Factor*: 0.1630 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 39.5 ft. Casing Volume: 1.85 gallons
Height of Water Col.: 11.35 ft. Cal. 3 Volumes: 5.55 gallons
1.85 / 17 bails

Purge Information
Date Purged: 11/19/14 Time Start: 1450 Finish: 1506 Purge Rate: 1L per bail
Purging Method: Bailer Total Volume Purged: 6.0 gallons

Sampling Information
Date Sample Collected: 11/20/14 Time Sample Collected: 1055 (am) pm
Sampling Equipment Used: Bailer

Bottle Type	Preservation	Analysis Required
40 ml vials	HCL	Appl VOC + THF
4-1L glass ambers	NONE	8270/8081/8151 detects
250 ml plastic	HNO3	metals - Appl + Na, Mn, Fe
250 ml plastic	NaOH	Cyanide
250 ml plastic	Zn Acetate/NaOH	Sulfide

Field Measurements/Observations
Sample Temp. (°C): 16.7 Time: 1055
Sample pH (s.u.): 6.2 Time: 1055
Specific Cond. (uS): ~~182~~ Time: 1055
ReDox (mV): 182 Time: 1055
Odor: None
Turbidity (ntu): 20.1 Time: 1055
Dis. Oxy. (mg/L): 1.25 Time: 1055
Res. Cl (mg/L): — Time: —
Other: Time:
Appearance: Clear
General Observations:

Weather Conditions: Sunny, Warm

Sampler Signature: [signature] Date: 11/20/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1450	6.14	761	140	47.6	4.91	15.0	~~3~~ 1.5	
1457	6.24	700	144	25.8	5.0	15.1	~~3~~ 1.0	
1500	6.3	646	152	13.5	10	15.2	~~3~~ 1.0	
1503	6.3	641	154	8.34	9.6	15.5	~~3~~ 1.0	
1506	6.3	632	155	3.35	8.7	15.4	~~3~~ 1.5	

Pace Analytical®

6W1

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): OHG Pace
Name & Affiliation (Inspector):

Well Information
Well ID: 6W1 Well Locked: yes no
Well Diameter: Construction: PVC Steel Stainless Steel
Total Well Depth: ft. Multi. Factor*: {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: ft. Casing Volume: gallons
Height of Water Col.: ft. Cal. 3 Volumes: gallons

Purge Information N/A
Date Purged: / / Time Start: Finish: Purge Rate:
Purging Method: Total Volume Purged: gallons

Sampling Information
Date Sample Collected: 11/20/14 Time Sample Collected: 1400 am pm
Sampling Equipment Used: Grab

Bottle Type	Preservation	Analysis Required
3-40 ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250 / 1-500 ml	None	chloride/sulfate/Alk/TDS
1-125 / 1-125	NaOH / NaOH + Zn Acet.	Cyanide/Sulfide

Field Measurements/Observations
Sample Temp. (°C): 10.8 Time: 1400
Sample pH (s.u.): 6.1 Time: 1400
Specific Cond. (uS): 247 Time: 1400
ReDox (mV): 7 Time: 1400
Odor: None
Turbidity (ntu): 363.9 Time: 1400
Dis. Oxy. (mg/L): 0.5 Time: 1400
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: Oil Sheen/cloudy
General Observations: Still, cloudy, oil sheen, Low Water level <2", No Flow, Standing Water
Weather Conditions: Sunny / warm

Sampler Signature: Date: 11/20/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
				N/A				

Pace Analytical®

SW2

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG - Pace
Name & Affiliation (Inspector): N/A

Well Information
Well ID: SW2 Well Locked: yes no
Well Diameter: ✓ Construction: PVC Steel Stainless Steel
Total Well Depth: ✓ ft. Multi. Factor*: ✓ {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: ✓ ft. Casing Volume: ✓ gallons
Height of Water Col.: ✓ ft. Cal. 3 Volumes: ✓ gallons

Purge Information N/A
Date Purged: / / Time Start: Finish: Purge Rate:
Purging Method: Total Volume Purged: gallons

Sampling Information
Date Sample Collected: 11/20/14 Time Sample Collected: 1255 am pm
Sampling Equipment Used: None / Grab

Bottle Type	Preservation	Analysis Required
3-40 ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250/1-500 ml	None	Sulfate/chloride/Alk/TDS
1-125ml/1-125ml	NaOH/NaOH + Zn Ac	Cyanide/sulfide

Field Measurements/Observations
Sample Temp. (°C): 11.2 Time: 1255 | Turbidity (ntu): 136.9 Time: 1255
Sample pH (s.u.): 6.3 Time: 1255 | Dis. Oxy. (mg/L): 2.11 Time: 1255
Specific Cond. (uS): 324 Time: 1255 | Res. Cl (mg/L): ✓ Time: ✓
ReDox (mV): -36 Time: 1255 | Other: Time:
Odor: None | Appearance: cloudy/oil sheen
General Observations: No Flow, still water, low depth or 2-3"

Weather Conditions: Warm/sunny

Sampler Signature: [signature] Date: 11/20/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
			N/A					

Pace Analytical®

SW3

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG Pace
Name & Affiliation (Inspector): NA

Well Information Grab
Well ID: — Well Locked: yes no
Well Diameter: — Construction: PVC Steel Stainless Steel
Total Well Depth: — ft. Multi. Factor*: — {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: — ft. Casing Volume: — gallons
Height of Water Col.: — ft. Cal. 3 Volumes: — gallons

Purge Information N/A
Date Purged: / / Time Start: Finish: Purge Rate:
Purging Method: Total Volume Purged: gallons

Sampling Information
Date Sample Collected: 11/20/14 Time Sample Collected: 1215 am pm
Sampling Equipment Used: None / Grab

Bottle Type	Preservation	Analysis Required
3-40 ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250 / 1-500 ml	None	Sulfate/chloride/Alk/TDS
1-125ml / 1-125 ml	NaOH / Zn. Ace + NaOH	Cyanide / Sulfide

Field Measurements/Observations
Sample Temp. (°C): 12.5 Time: 1215
Sample pH (s.u.): 6.6 Time: 1215
Specific Cond. (uS): 885 Time: 1215
ReDox (mV): -45 Time: 1215
Odor: None
Turbidity (ntu): 16.6 Time: 1215
Dis. Oxy. (mg/L): 4.5 Time: 1215
Res. Cl (mg/L): — Time:
Other: Time:
Appearance: Cloudy / Oil sheen
General Observations: Low Flow

Weather Conditions: Warm / Sunny

Sampler Signature: [signature] Date: 11/20/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
			N/A					

Pace Analytical®

SW-4

Well Diameter (in.)	Multiplication Factor*
1	0.0408
1.5	0.0918
1.625	0.1080
2	0.1630
3	0.3670
4	0.6530
6	1.4680
8	2.6100

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): DHG - Pace
Name & Affiliation (Inspector): N/A

Well Information
Well ID: SW-4 Well Locked: yes no
Well Diameter: / Construction: PVC Steel Stainless Steel
Total Well Depth: / ft. Multi. Factor*: / {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: / ft. Casing Volume: / gallons
Height of Water Col.: / ft. Cal. 3 Volumes: / gallons

Purge Information N/A
Date Purged: / / Time Start: Finish: Purge Rate:
Purging Method: Grab Total Volume Purged: gallons

Sampling Information
Date Sample Collected: 11/20/14 Time Sample Collected: 1325 am (pm)
Sampling Equipment Used: Grab

Bottle Type	Preservation	Analysis Required
3-40 ml VOA	HCl	8260 + THF
1-250 ml	HNO3	Metals
1-250 / 1-500 ml	None	Sulfate/chloride/Alk/TDS
1-125 ml / 1-125 ml	NAOH / NAOH + Zn Acet.	Cyanide / Sulfide

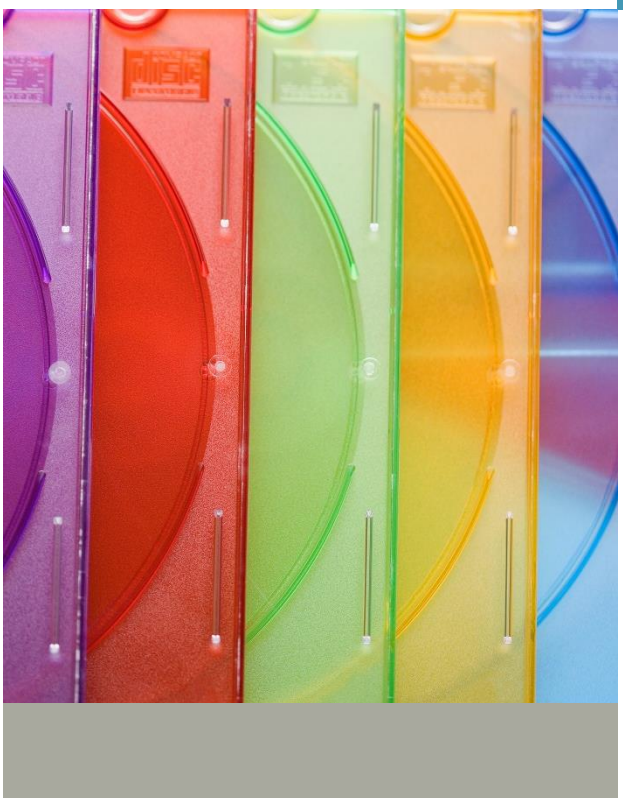
Field Measurements/Observations
Sample Temp. (°C): 10.0 Time: 1325
Sample pH (s.u.): 6.7 Time: 1325
Specific Cond. (uS): 344 Time: 1325
ReDox (mV): 27 Time: 1325
Odor: None
Turbidity (ntu): 28.3 Time: 1325
Dis. Oxy. (mg/L): 8.18 Time: 1325
Res. Cl (mg/L): ✓ Time: ✓
Other: Time:
Appearance: cloudy
General Observations: Low Flow

Weather Conditions: Warm / sunny

Sampler Signature: [signature] Date: 11/20/14

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
			N/A					



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Appendix D – Electronic Files

Portable Document Format (PDF) of this Report

Electronic Data Deliverable (EDD) of Groundwater Results

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