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	May 5-7, 2015

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 — Project Engineer — 704 338-6719

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Eric Alan Wright — 06/30/15 — Affix NC Licensed Professional Engineer Seal

Signature — Date

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)

NORTH CAROLINA PROFESSIONAL SEAL 019027 ENGINEER ERIC ALAN WRIGHT 6/30/15

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 May 2015 Groundwater Sampling Event

HDR Project No. 00162-218490-018

Forsyth County, North Carolina

June 2015

NORTH CAROLINA PROFESSIONAL SEAL 019027 ENGINEER ERIC ALAN WRIGHT

6/30/15

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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

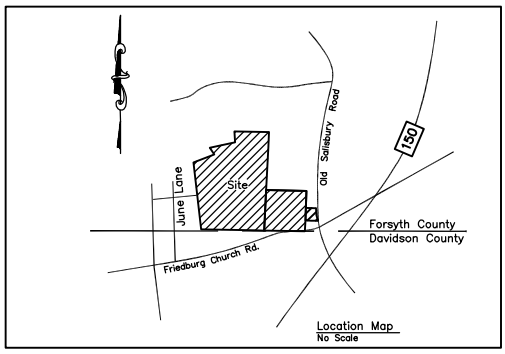
The site is operated under NC DENR facility permit number 34-12 dated April 6, 2015 (DIN 23258). The groundwater monitoring and reporting requirements are addressed in Items 36 to 45 of the permit. A Ground Water Monitoring Plan was last approved as noted by NC DENR on March 5, 2015 (DIN 23910). Ground 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
			GROUNDWATER FLOW

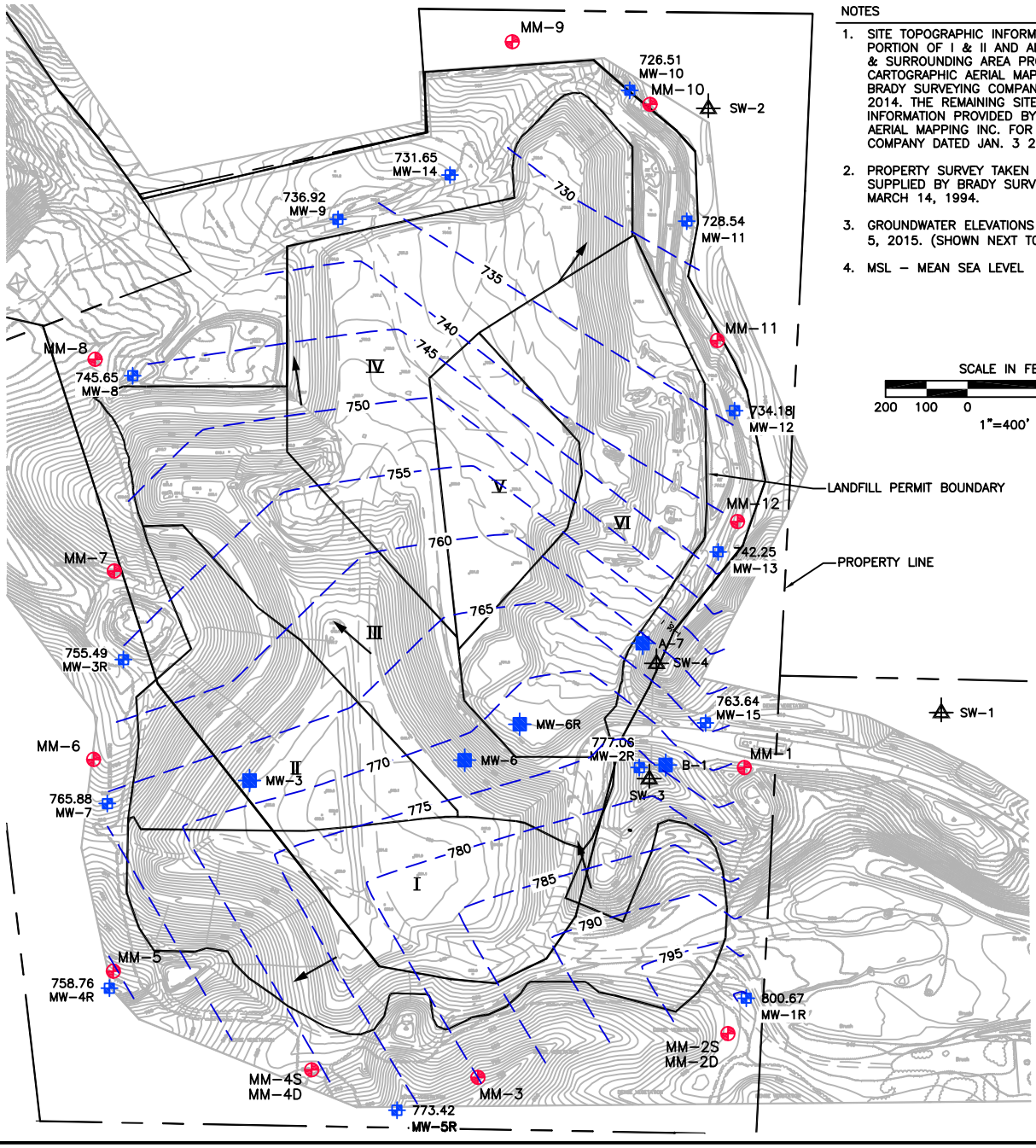
NOTES

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 MAY 5, 2015. (SHOWN NEXT TO WELL LABEL)
4. MSL – MEAN SEA LEVEL

SCALE IN FEET

200 100 0 200 400

1"=400'



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HDR

PROJECT TITLE OLD SALISBURY ROAD C & D LANDFILL		PROJECT NUMBER 218490–001–018	REFERENCE SHEET LAYOUT 2
SHEET TITLE **GROUNDWATER CONTOURS AND SAMPLE LOCATIONS SPRING 2015**		PROJECT MANAGER M. PLUMMER, P.E.	REFERENCE DOCUMENT 00D–03
		DATE JUNE 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 three days (May 5 to 7, 2015). Pace Analytical Laboratories, Inc. (Pace), on behalf of HDR sampled the groundwater monitoring wells during the reporting period. Groundwater elevations were measured at all wells within a two hour window on May 5, 2015.

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 are 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
5/5/2015	800.67	777.06	755.49	758.76	773.42	765.88	745.65

	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15
5/5/2015	736.92	726.51	728.54	734.18	742.25	731.65	763.64

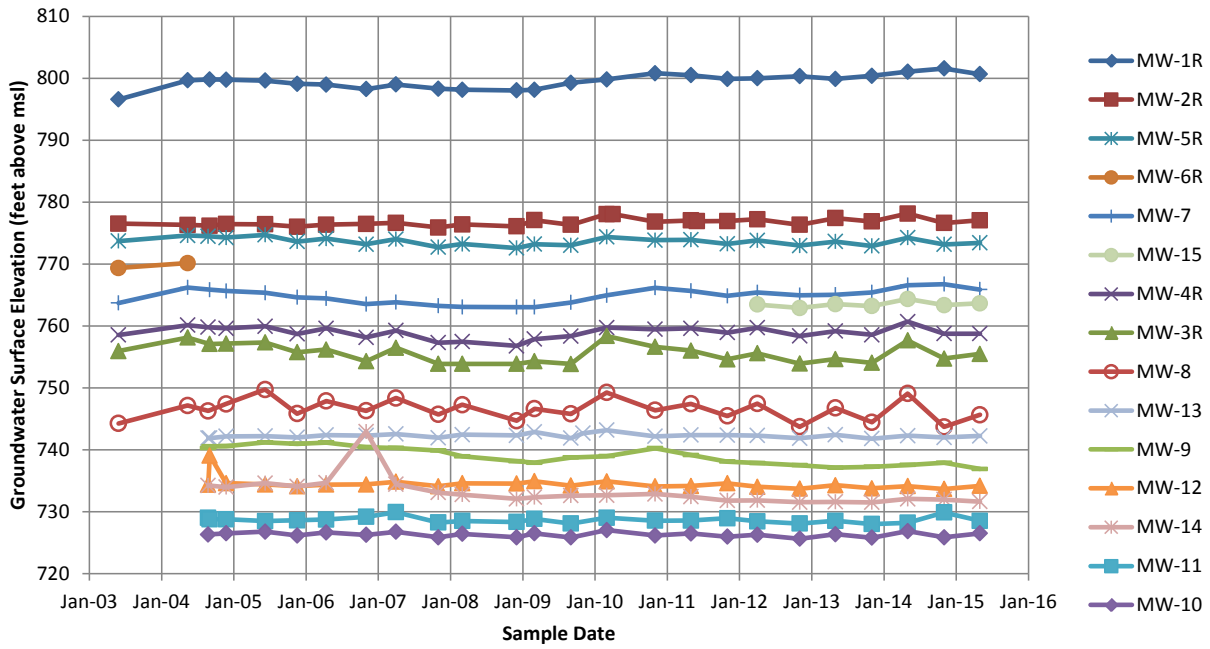


Figure 2 - Historic Groundwater Elevations

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	Nov 2012	April 2013	Nov 2013	May 2014	Nov 2014	May 2015
MW-1R to MW-4R	0.024 / 17	0.027 / 18	0.027 / 18	0.026 / 18	0.027 / 18	0.026 / 18	0.028 / 19	0.027 / 18
MW-1R to MW-2R	0.032 / 22	0.040 / 27	0.039 / 26	0.036 / 25	0.038 / 26	0.037 / 25	0.040 / 27	0.038 / 26
MW-2R to MW-13	0.060 / 41	0.064 / 44	0.062 / 42	0.062 / 43	0.063 / 43	0.064 / 44	0.062 / 42	0.062 / 42
MW-13 to MW-10	0.013 / 9	0.014 / 10	0.014 / 10	0.014 / 10	0.014 / 9	0.013 / 9	0.014 / 10	0.014 / 9
MW-2R to MW-15	0.068 / 46	0.071 / 48	0.069 / 47	0.071 / 48	0.070 / 48	0.071 / 48	0.068 / 46	0.069 / 47

Table 5 - Event Summary – May 2015

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	Equipment Blank
			µg/L																			
			EPA 300.0																			
250000	250000	µg/L	Sulfate	1700	98400	3000	72700	8000	1850	1860	2030	8770	15300	73600	9330	1790	65400	3690	7280	17000	23500	
			EPA 6010																			
10	10	µg/L	Arsenic																17			
100	700	µg/L	Barium	164	287	214	306	54	122	30	182	660	93.7	60.9	89.3	179	105	72.2	700	105	187	
1	4000	µg/L	Beryllium									2.8			0.66	0.54			3.7			
10	10	µg/L	Chromium					4.8				6.7			2.9		7.6		40.3	3.4		
10	1000	µg/L	Cobalt		20.3	10.1	15.2					4.8	2.5						5.9		5.9	
10	1000	µg/L	Copper		6.3							3.8					8.8		81.6	4.4		
300	300	µg/L	Iron		9560	56000	292	113		54		3650	31400	524	1400	695	10600	8870	226000	4940	9220	
10	15	µg/L	Lead		3.3	2.7						11.6	2.9		2.9		6.8		75	2.7		
50	50	µg/L	Manganese		11900	7980	315		27.1	3.4	3.5	736	1990	9.7	41.2	25.7	271	1160	1020	1420	5050	
50	100	µg/L	Nickel		17		2.8					5.9				2.8	4.3		16.4	2.8	3.6	
NE	NE	µg/L	Sodium	11600	51400		23000	13100	16300	6940	14500	14100	9460	11200	10700	14500	20300	16000	8390	18200	23800	
5.5	200	µg/L	Thallium		5.1																	
25	300	µg/L	Vanadium		11.4	8.8		4.3				4.9	3.2		3.4		24.7		127	9.7	5.9	
10	1000	µg/L	Zinc		8.7		7.5		6.8			21.2			7.9		49		249	13.6		
			EPA 7470																			
0.2	1	µg/L	Mercury									0.29							0.2			
			EPA 8151																			
2	50	µg/L	2,4,5-TP (Silvex)		0.14																	
2	70	µg/L	2,4-D		0.43																	
			EPA 8260																			
5	6	µg/L	1,1-Dichloroethane		0.49				1.1													
50	NE	µg/L	2-Hexanone									0.96							1.8		3.1	
100	NE	µg/L	4-Methyl-2-pentanone (MIBK)									5.6										
1	1	µg/L	Benzene		1.7				0.29			0.46										
5	70	µg/L	Chloroform														0.26					
1	3	µg/L	Chloromethane						0.13													
5	70	µg/L	cis-1,2-Dichloroethene						0.73													
1	600	µg/L	Ethylbenzene									1										
5	500	µg/L	m&p-Xylene						1.5			1.2										
1	5	µg/L	Methylene Chloride		2.3				2.1													1.8
NE	NE	µg/L	o-Xylene						0.4			0.85										
1	0.7	µg/L	Tetrachloroethene		1.2																	
NS	NS	µg/L	Tetrahydrofuran		34.6		5.8		14.1			145					16.9				4.1	
1	600	µg/L	Toluene									0.63										
1	3	µg/L	Trichloroethene		0.79																	
1	2000	µg/L	Trichlorofluoromethane		1.5				0.79		0.98			0.22		0.59	4.4					
1	0.03	µg/L	Vinyl chloride		0.7																	
			SM 2320B																			
NE	NE	µg/L	Alkalinity, Total as CaCO3	39600	358000	107000	117000	28600	64100	20000	18900	47300	132000	19200	36900	45200	91500	44500	33200	118000	242000	
			SM 4500-Cl-E																			
NE	250000	µg/L	Chloride	7640	44200	2990	22200	15700	4340	1960	4290	51800	14400	8070	3760	3510	98200	31500	4050	27000	19000	
			SM 2540C																			
NE	500000	µg/L	Total Dissolved Solids	133000	632000	182000	304000	166000	145000	61000	134000	279000	239000	163000	107000	131000	360000	140000	125000	233000	371000	
			°C																			
			Field																			
			Field Temperature	18	13.7	15	13.3	14.7	16.7	16.1	17.5	17.1	13.4	14.9	18.7	17.1	17.3	20.4	19.7	17.5	18.2	
			µmhos/cm																			
			Field																			
			Field Specific Conductance	153.1	985	363.4	422	175.1	194.8	50.9	148.3	297.2	407.8	234.3	115	150.1	611	228.7	185.9	364.2	603	
			mg/L																			
			Field																			
			Oxygen, Dissolved	4.5	1.6	2	2.5	6.8	0.4	5.7	6.3	1.5	0.3	5.4	2.7	5.2	2	4.5	0.2	6.9	3.5	
			mV																			
			Field																			
			REDOX	265.1	15.4	-1.1	262.8	244.4	228.8	255.2	206.8	244.7	-34.3	230.6	218.9	221.2	176	11	-79.4	-15.8	-25.5	
			NTU																			
			Field																			
			Turbidity	1.2	8.8	6.2	12.2	2.2	1.2	2.3	1.4	246.4	8	7.7	32.7	26.1	81.7	26.5	385.5	42.7	18.6	
			Std. Units																			
			Field																			
			Field pH	5.5	6.1	6.1	5.9	5.9	5.6	5.7	5.5	5.2	6	6	5.7	5.6	6.2	6.3	6.5	6.9	6.5	
			feet																			
			Field																			
			Static Water Level	35.75	8.16	21.11	9.2	10.94	37.78	16.85	53.36	11.7	4.05	4.89	8.98	52.23	39.21					
			Total Well Depth	60	21	27	20	30	48	27	60	21	20	15.58	20	60	50.85					

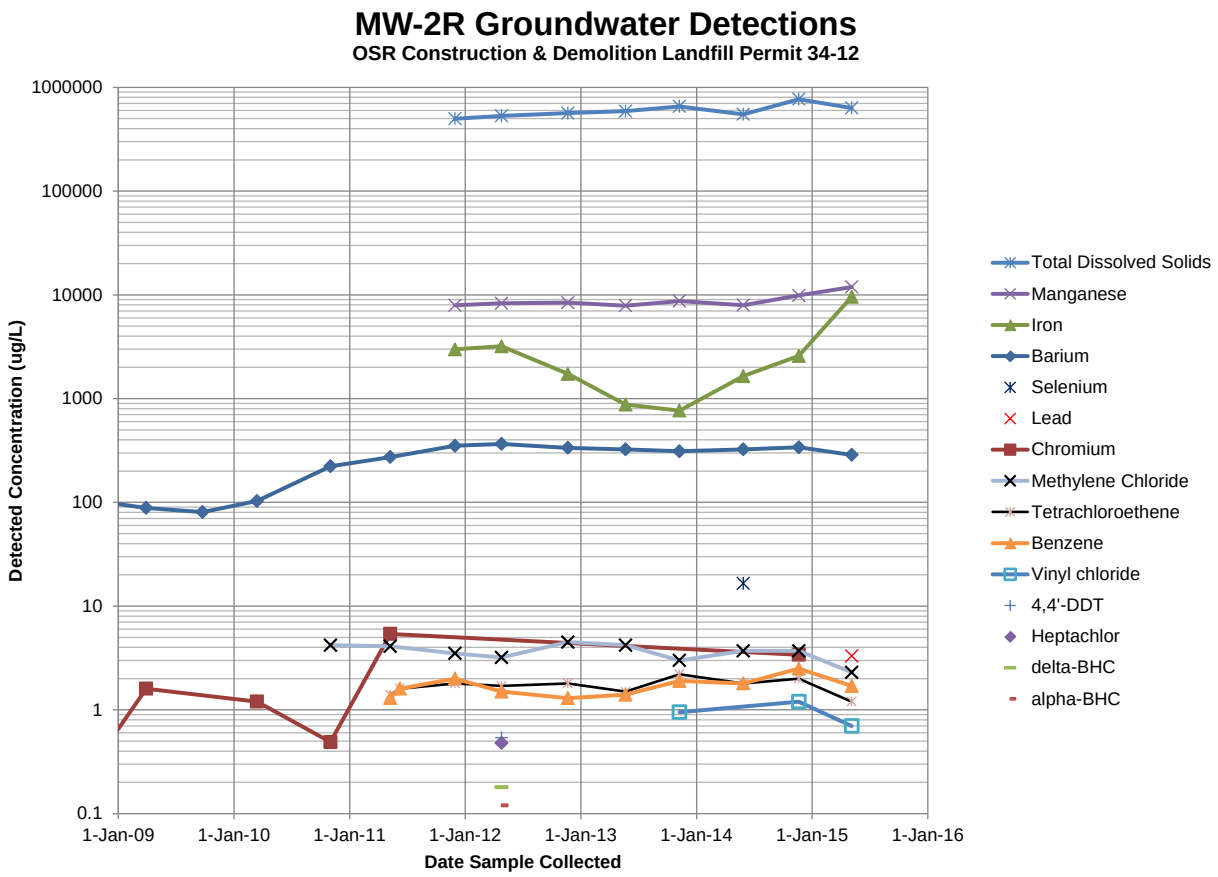
To distinguish non detections (ND) from not sampled (NS), refer to complete laboratory analysis. This table represents both ND and NS as blanks.

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 detections above the 2L standard; these detections comprised ten parameters in thirteen locations during this event. Methylene chloride was detected in MW-2R, MW-7 and the equipment blank between the SWSL and 2L standards during this event. Ten other constituents were also detected between the two standards.

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.

- Arsenic in SW-2
- Barium in SW-2
- Chromium in SW-2
- Iron in MW-2R, MW-3R, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15 and all four surface water samples.
- Lead in SW-2
- Manganese in MW-2R, MW-3R, MW-4R, MW-10, MW-11, MW-15 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.

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%

Date	Time	ID #	CH_4 (%)	CO_2 (%)	O_2 (%)
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%
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%
5-May-15	11:11	MM-1	0.0%	3.6%	17.4%
5-May-15	11:26	MW-13	0.0%	0.5%	20.2%
5-May-15	11:19	MW-15	0.0%	0.4%	20.4%
5-May-15	11:05	MW-1R	0.0%	0.1%	20.9%
5-May-15	11:14	MW-2R	0.0%	0.0%	20.7%

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.

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	May-15	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
			µg/L														
			MW-1R														
NE	NE	µg/L	Alkalinity, Total as CaCO3	39600	37600	30000	28100	29800	26300	27100	27500						
10	10	µg/L	Arsenic														
100	700	µg/L	Barium	164	142	124	106	109	91.7	93.8	82.6			84.7	85.4		85.3
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	7640	7090	5600	5880	5910	5320	5350							
10	10	µg/L	Chromium											1.4	0.96		1.4
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
NE	NE	µg/L	Sodium	11600	10600	10800	9940	9080	9180	9440	7670						
250000	250000	µg/L	Sulfate	1700	1720												
1	600	µg/L	Toluene														
NE	500000	µg/L	Total Dissolved Solids	133000	120000	91000	103000	84000	95000	93000	95000						
			MW-2R														
5	6	µg/L	1,1-Dichloroethane	0.49	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)	0.14			0.23										
2	70	µg/L	2,4-D	0.43			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	358000	453000	344000	349000	363000	277000	196000		219000	####				
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	287	339	324	311	324	335	366		351		273	223		103
1	1	µg/L	Benzene	1.7	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	44200	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	20.3	25	22.8	19.2	18.2	15.2	14.8		11.8					
10	1000	µg/L	Copper	6.3	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	9560	2580	1650	766	877	1730	3190		2980					
10	15	µg/L	Lead	3.3													
5	500	µg/L	m&p-Xylene									0.66		0.74			
50	50	µg/L	Manganese	11900	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	2.3	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	17	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
NE	NE	µg/L	Sodium	51400	58300	59700	46200	45700	43400	38400		31800	####				
250000	250000	µg/L	Sulfate	98400	117000	136000	128000	115000	79500	95000		96300					
1	0.7	µg/L	Tetrachloroethene	1.2	2	1.8	2.2	1.5	1.8	1.7		1.8	1.6	1.4			
NS	NS	µg/L	Tetrahydrofuran	34.6	79.2	72.6	99.6	111	93.2	152		197	274	226			
5.5	200	µg/L	Thallium	5.1													
NE	500000	µg/L	Total Dissolved Solids	632000	769000	549000	654000	589000	564000	531000		498000					
1	3	µg/L	Trichloroethene	0.79	0.85	0.71	0.89	0.68	0.77	0.82		0.88		0.65			

Old Salisbury Road Landfill (C&D)

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

Sep-09	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											
92.8	74.3	85	90.3	105	81	94	82	78	48	95		96	460	120	100	130	280	87	150	110	130	150	160	100	290	100	180	224
																							28					23
2	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																			
0.48		0.62	0.43																									
																	21											
																												86

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	May-15	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
1	2000	µg/L	Trichlorofluoromethane	1.5	2.4	3.7	12	12.1	16.9	20.9		20.1		31.6	36.1	21.9	22.2
25	300	µg/L	Vanadium	11.4			5.5										
1	0.03	µg/L	Vinyl chloride	0.7	1.2		0.95										
5	500	µg/L	Xylenes (Total)						0.98	1.6							
10	1000	µg/L	Zinc	8.7	16.8		12.2	21.1	24.5	35.2		33.3					
			MW-3R														
NE	NE	µg/L	Alkalinity, Total as CaCO3	107000	177000	155000	155000	175000	142000	150000		155000					
10	10	µg/L	Arsenic			8.9											4
100	700	µg/L	Barium	214	221	205	201	216	173	228		237		301	302		314
15	3	µg/L	bis(2-Ethylhexyl)phthalate							5.5							
1	2	µg/L	Cadmium														0.82
100	700	µg/L	Carbon Disulfide														
NE	250000	µg/L	Chloride	2990	2940	3260	3620	3860	3920								
10	10	µg/L	Chromium														
10	1000	µg/L	Cobalt	10.1	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	56000	49700	38200	31300	34100	25300	41500		40300					
10	15	µg/L	Lead	2.7	2.7												
50	50	µg/L	Manganese	7980	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
NE	NE	µg/L	Sodium		2770												
250000	250000	µg/L	Sulfate	3000	3740	4230	3400	5070	5420	6860							
100	2E+06	µg/L	Tin					5.8									
NE	500000	µg/L	Total Dissolved Solids	182000	191000	187000	193000	175000	172000	168000		180000					
25	300	µg/L	Vanadium	8.8	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	117000	286000	222000	224000	203000	174000	64300	143000						
10	10	µg/L	Arsenic														
100	700	µg/L	Barium	306	305	264	296	375	400	407	328			126	335		55.9
1	1	µg/L	Benzene		0.42	0.28	0.27										
1	2	µg/L	Cadmium														
NE	250000	µg/L	Chloride	22200	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
10	1000	µg/L	Cobalt	15.2	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	292	126		89.5	158	344	145	368						
10	15	µg/L	Lead														
50	50	µg/L	Manganese	315	1040	641	688	496	541	370	257						
0.2	1	µg/L	Mercury														
1	5	µg/L	Methylene Chloride														
50	100	µg/L	Nickel	2.8	7.2		5.3										
10	20	µg/L	Selenium			11.5											
10	20	µg/L	Silver											0.88	1.3		
NE	NE	µg/L	Sodium	23000	55400	39700	42600	42600	43600	40400	35300						
250000	250000	µg/L	Sulfate	72700	143000	85200	113000	97600	73600	98700	61800						
NS	NS	µg/L	Tetrahydrofuran	5.8	15.9	11.8	11.7	8.5	13.5	8.8							
NE	500000	µg/L	Total Dissolved Solids	304000	692000	445000	496000	413000	435000	374000	345000						
25	300	µg/L	Vanadium		2.7												
10	1000	µg/L	Zinc	7.5	7.2			13.6									
			MW-5R														
100	6000	µg/L	Acetone														
NE	NE	µg/L	Alkalinity, Total as CaCO3	28600	24000	31900	31700	34800	31200	134000	32800						
10	10	µg/L	Arsenic														4.2
100	700	µg/L	Barium	54	58.2	54.4	53.9	57.7	53.4	57.5	85.2			63.7	53		54.3
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	15700	15500	13900	15200	16200	16100	16100	16400						
1	3	µg/L	Chloromethane														
10	10	µg/L	Chromium	4.8	4.8	5.6				5.2	14.7			7.6	5.8		5
10	70	µg/L	Cyanide		5.1												
300	300	µg/L	Iron	113	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
NE	NE	µg/L	Sodium	13100	13700	13600	13800	13000	14500	14200	13300						

Old Salisbury Road Landfill (C&D)

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

Sep-09	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							
289	252	231	293	273	310	230	290	300	300	340		270	200	220	13	370	400	950	###	300	52		1400	860	620	800	790	1230
						2																						
26.1	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	24																							
1	0.29	1.5	0.87																									

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	May-15	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
250000	250000	µg/L	Sulfate	8000	8180	8060	8310	11200	8400	7910	7020						
NE	500000	µg/L	Total Dissolved Solids	166000	163000	167000	154000	131000	157000	149000	139000						
25	300	µg/L	Vanadium	4.3	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	1.1	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	64100	62400	51900	51600	63500	51900	50200		47700					
10	10	µg/L	Arsenic														3.4
100	700	µg/L	Barium	122	111	90.8	98.8	115	95.1	100		97.1		104	100		99.3
1	1	µg/L	Benzene	0.29													
0.05	0.019	µg/L	beta-BHC							0.1							
100	700	µg/L	Carbon Disulfide														
NE	250000	µg/L	Chloride	4340	4300	3600	5160	5340	3810								
10	3000	µg/L	Chloroethane						1.3								
1	3	µg/L	Chloromethane	0.13													
10	10	µg/L	Chromium												0.55		
5	70	µg/L	cis-1,2-Dichloroethene	0.73	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	1.5	1.1			0.96						1.4			
50	50	µg/L	Manganese	27.1	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	2.1	2.9												
NE	NE	µg/L	o-Xylene	0.4	0.36			0.27						0.39			
10	20	µg/L	Silver											0.84	0.23		0.56
NE	NE	µg/L	Sodium	16300	16600	14200	13000	14300	13900	13700		12000					
250000	250000	µg/L	Sulfate	1850	1360				2090								
NS	NS	µg/L	Tetrahydrofuran	14.1	8.8	5.2	13.7	24.2	26	18.9							
NE	500000	µg/L	Total Dissolved Solids	145000	138000	126000	116000	108000	111000	109000		124000					
1	2000	µg/L	Trichlorofluoromethane	0.79	1.2	0.62	0.47	0.25	0.29			0.34		0.48			
5	500	µg/L	Xylenes (Total)					1.2	0.79								
10	1000	µg/L	Zinc	6.8													
			MW-8														
100	6000	µg/L	Acetone											3.8			
NE	NE	µg/L	Alkalinity, Total as CaCO3	20000	22800	21300	19700	22800	19500	20100		19600					
10	10	µg/L	Arsenic		2.6												
100	700	µg/L	Barium	30	38	30.7	25.4	28.5	26.9	27.5		24.4		27.3	26.8		28.8
NE	250000	µg/L	Chloride	1960	1350	1800	1510	2070	1860								
10	10	µg/L	Chromium											0.96	0.62		1.4
300	300	µg/L	Iron	54	529		136	61.5	60.8	57.8		151					
10	15	µg/L	Lead														
50	50	µg/L	Manganese	3.4	19.9		6.8					7					
0.2	1	µg/L	Mercury														
10	20	µg/L	Silver											0.1			
NE	NE	µg/L	Sodium	6940	7810	6160	5580	6120	6980	6250		5410					
250000	250000	µg/L	Sulfate	1860				2100									
NE	500000	µg/L	Total Dissolved Solids	61000	64000	50000	61000	51000	58000	52000		81000					
10	1000	µg/L	Zinc						15.2			45.4					
			MW-9														
NE	NE	µg/L	Alkalinity, Total as CaCO3	18900	18300	18300	18400	21700	17200	20100		17400					
10	10	µg/L	Arsenic		3.5												
100	700	µg/L	Barium	182	193	168	170	174	142	142		141		153	157		134
15	3	µg/L	bis(2-Ethylhexyl)phthalate						13								
NE	250000	µg/L	Chloride	4290	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	3.5	7.6		6.9	16.6									
10	20	µg/L	Silver											0.43			0.27
NE	NE	µg/L	Sodium	14500	14600	12400	13500	12900	13100	12600		11900					
250000	250000	µg/L	Sulfate	2030	2100			3200									
NE	500000	µg/L	Total Dissolved Solids	134000	141000	107000	124000	100000	118000	123000		128000					
1	2000	µg/L	Trichlorofluoromethane	0.98	0.96	0.47	0.69	0.36	0.49			0.42		0.26			

Old Salisbury Road Landfill (C&D)

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

Sep-09	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
																	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						
104	86.9	99	95.7	101	89	76	74	60	53	63		180	820	130	210	84	1300	1300	###	360	390	960	1300	1200	###	750	970	1930
12.5																							9					
0.65		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
								0.2																	0.2		0.4	1.4
																						10						
0.88	0.42	0.96	0.66													2.6												
												6					36	46	89									
27.2	25	32.8	24	27	30	29	29	26	25	30		480	52	77	48	150	2700	2600	###									
	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					0.3																				
0.16		0.15	0.13	0.2																								

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	May-15	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
10	1000	µg/L	Zinc		5.3												
			MW-10														
50	NE	µg/L	2-Hexanone	0.96													
100	NE	µg/L	4-Methyl-2-pentanone (MIBK)	5.6	2.2												
NE	NE	µg/L	Alkalinity, Total as CaCO3	47300	42200	31400	26700	32100	25500	413000		21700					
100	700	µg/L	Barium	660	262	132	112	115	101	96.5		91.3		80.7	38.9		46.6
1	1	µg/L	Benzene	0.46	0.44												
1	4000	µg/L	Beryllium	2.8	1.4												
100	700	µg/L	Carbon Disulfide														
NE	250000	µg/L	Chloride	51800	2220	1820	1790	2040	1800								
10	10	µg/L	Chromium	6.7										0.63			
5	70	µg/L	cis-1,2-Dichloroethene		0.35												
10	1000	µg/L	Cobalt	4.8													
10	1000	µg/L	Copper	3.8													
1	600	µg/L	Ethylbenzene	1	0.73												
300	300	µg/L	Iron	3650	1160		84.3	92.8	218	55.1		424					
10	15	µg/L	Lead	11.6	4.1												
5	500	µg/L	m&p-Xylene	1.2	1.1												
50	50	µg/L	Manganese	736	130	10.9	7.9		5.1			6.8					
0.2	1	µg/L	Mercury	0.29	0.33	0.51											
50	100	µg/L	Nickel	5.9													
NE	NE	µg/L	o-Xylene	0.85	0.65												
10	20	µg/L	Selenium														
10	20	µg/L	Silver											0.12			
NE	NE	µg/L	Sodium	14100	6860				5280								
250000	250000	µg/L	Sulfate	8770													
1000	NE	µg/L	Sulfide		260												
NS	NS	µg/L	Tetrahydrofuran	145	106	18.6	5										
1	600	µg/L	Toluene	0.63													
NE	500000	µg/L	Total Dissolved Solids	279000	86000	63000	66000	46000	63000	49000		89000					
1	2000	µg/L	Trichlorofluoromethane			0.2	0.33	0.38	0.49			0.68		0.52			
25	300	µg/L	Vanadium	4.9													
10	1000	µg/L	Zinc	21.2	6.2												
			MW-11														
0.1	0.1	µg/L	4,4'-DDT							0.05							
NE	NE	µg/L	Alkalinity, Total as CaCO3	132000	143000	175000	161000	189000	153000	120000		122000					
100	700	µg/L	Barium	93.7	96.8	94.3	87.8	87	76.8	70.3		57.5		56.2	48.1		37.6
10	200	µg/L	Benzo(g,h,i)perylene							1.3							
NE	250000	µg/L	Chloride	14400	15000	12400	14000	14200	12900	10800		8480					
10	10	µg/L	Chromium														
10	1000	µg/L	Cobalt	2.5	2.6		47.5	65.1									
300	300	µg/L	Iron	31400	35700	33400	32100	30700	29000	26300		23000					
10	15	µg/L	Lead	2.9	3.6												
50	50	µg/L	Manganese	1990	2030	1960	1920	1890	1740	1580		1250					
10	20	µg/L	Selenium														
10	20	µg/L	Silver											1.2			0.48
NE	NE	µg/L	Sodium	9460	10000	8490	9070	8290	8770	7460		6480					
250000	250000	µg/L	Sulfate	15300	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	239000	228000	207000	236000	228000	220000	161000		165000					
25	300	µg/L	Vanadium	3.2	3.6												
10	1000	µg/L	Zinc						92								
			MW-12														
NE	NE	µg/L	Alkalinity, Total as CaCO3	19200	40500	45500	39300	29600	40200	37200		40200					
10	10	µg/L	Arsenic														2.7
100	700	µg/L	Barium	60.9	59.2	61.1	47.6	50.1	50.5	46.9		60.1		39.1	44.9		40.6
10	200	µg/L	Benzo(g,h,i)perylene							1.2							
NE	250000	µg/L	Chloride	8070	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	524	758	348	253	324	1430	539		3030					
50	50	µg/L	Manganese	9.7	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
NE	NE	µg/L	Sodium	11200	12800	11000	10500	11100	11000	11600		9980					
250000	250000	µg/L	Sulfate	73600	32800	48000	27400	51800	24200	20500		15300					
NE	500000	µg/L	Total Dissolved Solids	163000	135000	149000	126000	138000	127000	130000		124000					
1	2000	µg/L	Trichlorofluoromethane	0.22		0.32											
10	1000	µg/L	Zinc						30.8								

Old Salisbury Road Landfill (C&D)

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

Sep-09	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
39.1	38.9	41.9	42	41	52	71	48	46	82	55	98																	
13																												
	0.65										13																	
											6.8																	
								0.2																				
0.19											6.2																	
31.8	28.4	28.6	29.2	23	25	24	26	27	24	28	47																	
										3.9	3.3																	
0.5		8.7 0.79	0.41	0.4																								
38	34.5	57.9	60.5	47	31	66	55	77	50	77	74																	
	2		1.8				4			2.1																		
0.39		0.37	0.15	0.3																								

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	May-15	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
			MW-13														
5	350	µg/L	1,1-Dichloroethene														
NE	NE	µg/L	Alkalinity, Total as CaCO3	36900	36200	46400	43200	58700	43900	52200		44500					
100	700	µg/L	Barium	89.3	130	77.1	106	176	279	144		139		164	176		126
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	0.66	1.2			2.4	3.5	1.4		2.3					
NE	250000	µg/L	Chloride	3760	5870	3880	5700	3820	6150	5380							
10	10	µg/L	Chromium	2.9	3			7.1	11.8			5.5		3.9	4		1.7
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	1400	2720	232	1330	8610	11300	3760		6140					
10	15	µg/L	Lead	2.9	5.4			6.5	7.5			6.4			4.3		
50	50	µg/L	Manganese	41.2	55.6	34.1	48.8	158	301	91.5		140					
10	20	µg/L	Silver											0.72			0.4
NE	NE	µg/L	Sodium	10700	10700	11200	11700	19100	14600	16700		20200					
250000	250000	µg/L	Sulfate	9330	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	107000	119000	113000	114000	87000	144000	110000		159000					
1	2000	µg/L	Trichlorofluoromethane														
25	300	µg/L	Vanadium	3.4	7.1			14.6	18.7	7.2		10.8					
10	1000	µg/L	Zinc	7.9	13.7	17.2		37.3	51	20		31.6					
			MW-14														
NE	NE	µg/L	Alkalinity, Total as CaCO3	45200	42300	37400	32800	35600	28900	30100		30400					
10	10	µg/L	Arsenic														
100	700	µg/L	Barium	179	193	163	140	254	160	122		143		125	129		130
1	4000	µg/L	Beryllium	0.54	0.6												
15	3	µg/L	bis(2-Ethylhexyl)phthalate						9.8								
NE	250000	µg/L	Chloride	3510	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	1000	µg/L	Copper		4.8			9.5	5.8								
10	70	µg/L	Cyanide				6										
300	300	µg/L	Iron	695	2620	142	915	5820	4520	1140		2050					
10	15	µg/L	Lead														
50	50	µg/L	Manganese	25.7	120	40.2	110	240	251	170		71					
0.2	1	µg/L	Mercury														
50	100	µg/L	Nickel	2.8	5.3			8.6	13.7	12.5							
10	20	µg/L	Silver											0.74			0.39
NE	NE	µg/L	Sodium	14500	14400	12800	12300	13500	15000	14300		12700					
250000	250000	µg/L	Sulfate	1790													
NE	500000	µg/L	Total Dissolved Solids	131000	119000	124000	123000	102000	127000	145000		138000					
1	2000	µg/L	Trichlorofluoromethane	0.59	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					
			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	91500	54700	96600	64300	78900	77600	75300							
10	10	µg/L	Arsenic						7.1	5.7							
100	700	µg/L	Barium	105	41.5	8.6	23.8	59.6	143	115							
NE	250000	µg/L	Chloride	98200	146000	83400	124000	124000	143000	60600							
5	70	µg/L	Chloroform	0.26		0.49	0.77	0.63	0.49	1.4							
10	10	µg/L	Chromium	7.6					6.7	7.2							
10	1000	µg/L	Copper	8.8					10.5								
10	70	µg/L	Cyanide				5.2										
300	300	µg/L	Iron	10600	233	292	239	4140	12300	10000							
10	15	µg/L	Lead	6.8					9.5	7.6							
50	50	µg/L	Manganese	271	33	34.7	14	160	317	327							
50	100	µg/L	Nickel	4.3													
NE	NE	µg/L	Sodium	20300	24000	24200	25300	26700	21200	16300							
250000	250000	µg/L	Sulfate	65400	43800	59500	53200	41200	35600	25800							
1000	NE	µg/L	Sulfide						100								
NS	NS	µg/L	Tetrahydrofuran	16.9	15.5	21.4	14.7	7.4	6.3								
NE	500000	µg/L	Total Dissolved Solids	360000	464000	373000	410000	442000	298000	260000							
1	2000	µg/L	Trichlorofluoromethane	4.4	3.9	5.3	7.6	4.3	8.1	7.3							
25	300	µg/L	Vanadium	24.7				8.6	28.6	23.4							
10	1000	µg/L	Zinc	49	5.3		17.1	22.7	45.6	51.1							

Old Salisbury Road Landfill (C&D)

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Sep-09	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
19.8																												
117	79.2	88.7	64.6	86	79	62	65	59	46	57	160																	
0.8	1.6	2.2	1.1				2			4.8	9.2																	
											11																	
0.41		0.44	0.21																									
18.6																												
		7.3				8.3																						
242	97.9	583	186	130	210	460	250	120	69	66	170																	
10.7	0.4	40.2	4.1	1.7	6.6	35	15	3.9			3.2																	
7.2		26.2			5.2	23	13	5.9			8																	
				0.1				0.4																				
0.54		0.46	0.56	0.5																								

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)	May-15	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
			SW-1														
100	6000	µg/L	Acetone									2.2					
NE	NE	µg/L	Alkalinity, Total as CaCO3	44500	63700	45200	72700	58000	79700	47200		19600					
10	10	µg/L	Arsenic		5.9												3.7
100	700	µg/L	Barium	72.2	276	65.8	71.1	58.9	63.3	70.4		42.5		69.9	61.9		92.5
1	4000	µg/L	Beryllium		1.1												
1	2	µg/L	Cadmium		0.7												
NE	250000	µg/L	Chloride	31500	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	8870	155000	8210	22800	6900	25500	11400		2290					
10	15	µg/L	Lead		18.3												
50	50	µg/L	Manganese	1160	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
NE	NE	µg/L	Sodium	16000	12500	14500	13000	12400	15500	14300		9390					
250000	250000	µg/L	Sulfate	3690	3130	2820	2190	2700	2090								
NE	500000	µg/L	Total Dissolved Solids	140000	122000	126000	125000	104000	131000	98000		140000					
25	300	µg/L	Vanadium		37												
10	1000	µg/L	Zinc		69.8												
			SW-2														
50	NE	µg/L	2-Hexanone	1.8													
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	33200	2390	41300	48900	48600	44700	44200		26100					
10	10	µg/L	Arsenic	17	6.2												
100	700	µg/L	Barium	700	171	59.7	50.1	51.7	46.5	53.4		81		49.2	57.6		59.4
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	3.7	0.64												
15	3	µg/L	bis(2-Ethylhexyl)phthalate							1.1							
NE	250000	µg/L	Chloride	4050	28200	10700	11600	10800	10300	11300		10900					
10	10	µg/L	Chromium	40.3	3.2												
10	5	µg/L	Chrysene							1.1							
10	1000	µg/L	Cobalt	5.9	4.4												
10	1000	µg/L	Copper	81.6	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	226000	75000	2130	3360	1400	1280	1720		4170					
10	15	µg/L	Lead	75	7.4												
50	50	µg/L	Manganese	1020	1010	219	152	153	106	157		280					
0.2	1	µg/L	Mercury	0.2													
50	100	µg/L	Nickel	16.4	3.1												
10	20	µg/L	Selenium														
10	20	µg/L	Silver											0.2			0.2
NE	NE	µg/L	Sodium	8390	17600	9840	10300	9160	9990	9890		8650					
250000	250000	µg/L	Sulfate	7280	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	125000	117000	120000	114000	91000	101000	101000		189000					
25	300	µg/L	Vanadium	127	11.6							7.5					
10	1000	µg/L	Zinc	249	28							13.5					

Old Salisbury Road Landfill (C&D)

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

Sep-09	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
				23																								
									23		20																	
77.7	45.6	78.2	79.7	70	88	54	120	73	750	53	500																	
	0.61	0.67	1.2	0.6			4.2		52	3.2	36																	
17.5									57		38																	
								1.1																				
0.62		0.39	0.37	0.5																								

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	May-15	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
			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	118000	389000	259000	516000	293000	317000	221000	160000						
100	700	µg/L	Barium	105	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	27000	16900	34800	20000	24300	22800	20900						
10	10	µg/L	Chromium	3.4													
10	1000	µg/L	Cobalt		3.4	14.8	14.4	25.3	13	5.5							
10	1000	µg/L	Copper	4.4													
0.1	42	µg/L	Endosulfan II						0.071	0.085							
300	300	µg/L	Iron	4940	5270	8890	11700	9560	16500	9370	3230						
10	15	µg/L	Lead	2.7													
50	50	µg/L	Manganese	1420	5080	4320	8930	3990	5200	3760	1890						
50	100	µg/L	Nickel	2.8	4.8		12										
NE	NE	µg/L	Sodium	18200	29900	29900	41100	25000	33800	21300	18500						
250000	250000	µg/L	Sulfate	17000	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	233000	473000	319000	705000	327000	432000	329000	237000						
25	300	µg/L	Vanadium	9.7			9.8										
10	1000	µg/L	Zinc	13.6			10.8										
			SW-4														
5	350	µg/L	1,1-Dichloroethene								0.58						
50	NE	µg/L	2-Hexanone	3.1													
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	242000	140000	158000	152000	147000	220000	158000	131000						
100	700	µg/L	Barium	187	82.8	126	101	106	151	136	105						
NE	250000	µg/L	Chloride	19000	24300	30800	31000	26900	28800	30900	23600						
5	70	µg/L	Chloroform							0.97							
10	1000	µg/L	Cobalt	5.9				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	9220	638	2520	1790	4180	1640	2140	1060						
50	50	µg/L	Manganese	5050	739	2250	1080	1650	2430	2420	1290						
50	100	µg/L	Nickel	3.6													
NE	NE	µg/L	Sodium	23800	17800	24400	20100	18200	29000	20000	17900						
250000	250000	µg/L	Sulfate	23500	17600	23500	23000	13200	32300	23600	19500						
NS	NS	µg/L	Tetrahydrofuran	4.1		4.4											
NE	500000	µg/L	Total Dissolved Solids	371000	222000	257000	270000	255000	349000	272000	234000						
1	2000	µg/L	Trichlorofluoromethane		0.27		0.25			1.4							
25	300	µg/L	Vanadium	5.9													

Old Salisbury Road Landfill (C&D)

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

Sep-09	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
			May-15								
			EPA 300.0								
			µg/L								
250000	250000	µg/L	Sulfate	1700	98400	3000	72700	8000		1850	1860
			EPA 6010								
			µg/L								
10	10	µg/L	Arsenic								
100	700	µg/L	Barium	164	287	214	306	54		122	30
1	4000	µg/L	Beryllium								
10	10	µg/L	Chromium					4.8			
10	1000	µg/L	Cobalt		20.3	10.1	15.2				
10	1000	µg/L	Copper		6.3						
300	300	µg/L	Iron		9560	56000	292	113			54
10	15	µg/L	Lead		3.3	2.7					
50	50	µg/L	Manganese		11900	7980	315			27.1	3.4
50	100	µg/L	Nickel		17		2.8				
NE	NE	µg/L	Sodium	11600	51400		23000	13100		16300	6940
5.5	200	µg/L	Thallium		5.1						
25	300	µg/L	Vanadium		11.4	8.8		4.3			
10	1000	µg/L	Zinc		8.7		7.5			6.8	
			EPA 7470								
			µg/L								
0.2	1	µg/L	Mercury								
			EPA 8151								
			µg/L								
2	50	µg/L	2,4,5-TP (Silvex)		0.14						
2	70	µg/L	2,4-D		0.43						
			EPA 8260								
			µg/L								
5	6	µg/L	1,1-Dichloroethane		0.49					1.1	
50	NE	µg/L	2-Hexanone								
100	NE	µg/L	4-Methyl-2-pentanone (MIE								
1	1	µg/L	Benzene		1.7					0.29	
5	70	µg/L	Chloroform								
1	3	µg/L	Chloromethane							0.13	
5	70	µg/L	cis-1,2-Dichloroethene							0.73	
1	600	µg/L	Ethylbenzene								
5	500	µg/L	m&p-Xylene							1.5	
1	5	µg/L	Methylene Chloride		2.3					2.1	
NE	NE	µg/L	o-Xylene							0.4	
1	0.7	µg/L	Tetrachloroethene		1.2						
NS	NS	µg/L	Tetrahydrofuran		34.6		5.8			14.1	
1	600	µg/L	Toluene								
1	3	µg/L	Trichloroethene		0.79						
1	2000	µg/L	Trichlorofluoromethane		1.5					0.79	
1	0.03	µg/L	Vinyl chloride		0.7						
			SM 2320B								
			µg/L								
NE	NE	µg/L	Alkalinity, Total as CaCO3	39600	358000	107000	117000	28600		64100	20000
			SM 2540C								
			µg/L								
NE	500000	µg/L	Total Dissolved Solids	133000	632000	182000	304000	166000		145000	61000
			SM 4500-Cl-E								

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
2030	8770	15300	73600	9330	1790	65400	3690	7280	17000	23500		
								17				
182	660	93.7	60.9	89.3	179	105	72.2	700	105	187		
	2.8			0.66	0.54			3.7				
	6.7			2.9		7.6		40.3	3.4			
	4.8	2.5						5.9		5.9		
	3.8					8.8		81.6	4.4			
	3650	31400	524	1400	695	10600	8870	226000	4940	9220		
	11.6	2.9		2.9		6.8		75	2.7			
3.5	736	1990	9.7	41.2	25.7	271	1160	1020	1420	5050		
	5.9				2.8	4.3		16.4	2.8	3.6		
14500	14100	9460	11200	10700	14500	20300	16000	8390	18200	23800		
	4.9	3.2		3.4		24.7		127	9.7	5.9		
	21.2			7.9		49		249	13.6			
	0.29							0.2				
	0.96							1.8		3.1		
	5.6											
	0.46											
						0.26						
	1											
	1.2											
											1.5	1.8
	0.85											
	145					16.9				4.1		
	0.63											
0.98			0.22		0.59	4.4						
18900	47300	132000	19200	36900	45200	91500	44500	33200	118000	242000		
134000	279000	239000	163000	107000	131000	360000	140000	125000	233000	371000		

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
			µg/L								
NE	250000	µg/L	Chloride	7640	44200	2990	22200	15700		4340	1960
			Field								
			feet								
			Static Water Level	71.44	16.32	42.18	18.28	21.85		75.46	16.85
			Total Well Depth	60	21	27	20	30		48	27
			mg/L								
			Oxygen, Dissolved	4.5	1.6	2	2.5	6.8		0.4	5.7
			NTU								
			Turbidity	1.2	8.8	6.2	12.2	2.2		1.2	2.3
			Std. Units								
			Field pH	5.5	6.1	6.1	5.9	5.9		5.6	5.7
			mV								
			REDOX	265.1	15.4	-1.1	262.8	244.4		228.8	255.2
			µmhos/cm								
			Field Specific Conductance	153.1	985	363.4	422	175.1		194.8	50.9
			°C								
			Field Temperature	18	13.7	15	13.3	14.7		16.7	16.1
			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 (MIE								
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	

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
4290	51800	14400	8070	3760	3510	98200	31500	4050	27000	19000		
53.36	23.35	8.07	9.8	8.98	52.23	39.21						
60	21	20	15.58	20	60	50.85						
6.3	1.5	0.3	5.4	2.7	5.2	2	4.5	0.2	6.9	3.5		
1.4	246.4	8	7.7	32.7	26.1	81.7	26.5	385.5	42.7	18.6		
5.5	5.2	6	6	5.7	5.6	6.2	6.3	6.5	6.9	6.5		
206.8	244.7	-34.3	230.6	218.9	221.2	176	11	-79.4	-15.8	-25.5		
148.3	297.2	407.8	234.3	115	150.1	611	228.7	185.9	364.2	603		
17.5	17.1	13.4	14.9	18.7	17.1	17.3	20.4	19.7	17.5	18.2		
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											

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
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
			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

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
	0.65											
	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		
	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		

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	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						
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

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
				17.2	11.7							
	0.51											
									0.32			
						0.49						
											1.1	
	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		

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
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						
			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 Cr								
			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
			May-13								

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
									9.8			
						17.1			10.8			
									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
			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	
			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

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		
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		

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
			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	
			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	

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
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					
									0.34			
						0.49						
0.28												
						6.3			4.8			
0.49	0.49					8.1						

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
			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
			°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

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
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		
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		

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
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						
			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			

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
				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		
								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		

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			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
			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								

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
				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		
									19800	19500		
									123	105		
									3230	1060		
									1890	1290		
									18500	17900		
										0.58		
									160000	131000		
									237000	234000		
									20900	23600		

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
			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								
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								

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
									5.1	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								
				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				

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
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
			°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								

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
		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				
14.9	14.2	13.5	13	13.3	14.3		10.9	11.5				

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 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
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

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
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				
			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							

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
			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
			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								

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
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				
193	42	267	183	168	167		307	183				
16.2	18.5	17	18.1	17.2	17.2		14	13.4				

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
			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
			°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								

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
5.32	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				
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				

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 Specific Conductance	107	228	366	391	195		170	60
			°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
			°C								
			Field Temperature	14.8	13.3	14.6	14.7	15		12.8	15.3
			March-08								

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
141	42	171	139	124	147		255	148				
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				
15	15.6	14.7	14.3	14.5	14.8		8.1	7				

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 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
			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								

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
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				
121	36	121	114	65	140		218	112				
15.75	16.38	16.33	16.3	15.32	15.75		15.64	17.53				

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
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								

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
												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							

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
			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
			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								

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
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				
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
			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
			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							

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
			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
			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				

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-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	
			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

May 24, 2015

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

RE: Project: OSR
Pace Project No.: 92248411

Dear Mr. Wright:
Enclosed are the analytical results for sample(s) received by the laboratory between May 05, 2015 and May 07, 2015. 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.: 92248411

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
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
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.: 92248411

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92248411001	**3412-Equipment Blank**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	5	PASI-O
		EPA 8270	BPJ	6	PASI-C
		EPA 8260	GAW	52	PASI-C
92248411002	**3412-MW8**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411003	**3412-MW9**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411004	**3412-MW14**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411005	**3412-MW13**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92248411

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92248411006	**3412-MW15**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	5	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	BPJ	6	PASI-C
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411007	**3412-MW2R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	RES	6	PASI-C
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411008	**3412-MW4R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	RES	9	PASI-C
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	AES2	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92248411

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92248411009	**3412-MW10**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411010	**3412-MW11**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411011	**3412-MW12**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411012	**3412-MW3R**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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.: 92248411

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	JDA	1	PASI-A
92248411013	**3412-MW7**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411014	**3412-MW1R**	EPA 8081	RES	12	PASI-C
		EPA 8151	LJM	3	PASI-O
		EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	BPJ	6	PASI-C
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411015	**3412-MW5R**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411016	**3412-SW2**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: OSR
Pace Project No.: 92248411

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	AES2	1	PASI-A
		SM 4500-Cl-E	SER	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92248411017	**3412-SW3**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411018	**3412-SW4**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411019	**3412-SW1**	EPA 6010	JMW	19	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	GAW	52	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		SM 4500-S2D	MAB	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
92248411020	**3412-TRIP BLANK**	EPA 8260	GAW	52	PASI-C

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-Equipment Blank **Lab ID: 92248411001** Collected: 05/05/15 10:20 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	319-84-6	
delta-BHC	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	33213-65-9	
Endrin	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:10	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	05/11/15 09:15	05/16/15 04:10	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	74	%	20-130	1	05/11/15 09:15	05/16/15 04:10	877-09-8	
Decachlorobiphenyl (S)	75	%	20-130	1	05/11/15 09:15	05/16/15 04:10	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	ND	ug/L	0.97	1	05/12/15 16:10	05/14/15 06:07	94-75-7	
Dinoseb	ND	ug/L	0.19	1	05/12/15 16:10	05/14/15 06:07	88-85-7	
2,4,5-T	ND	ug/L	0.20	1	05/12/15 16:10	05/14/15 06:07	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	0.20	1	05/12/15 16:10	05/14/15 06:07	93-72-1	
Surrogates								
2,4-DCAA (S)	75	%	36-130	1	05/12/15 16:10	05/14/15 06:07	19719-28-9	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	05/09/15 09:45	05/18/15 14:54	56-55-3	
Chrysene	ND	ug/L	10.0	1	05/09/15 09:45	05/18/15 14:54	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	05/09/15 09:45	05/18/15 14:54	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	117	%	21-110	1	05/09/15 09:45	05/18/15 14:54	4165-60-0	S3
2-Fluorobiphenyl (S)	80	%	27-110	1	05/09/15 09:45	05/18/15 14:54	321-60-8	
Terphenyl-d14 (S)	119	%	31-107	1	05/09/15 09:45	05/18/15 14:54	1718-51-0	S3
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/14/15 22:53	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/14/15 22:53	107-13-1	
Benzene	ND	ug/L	1.0	1		05/14/15 22:53	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/14/15 22:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/14/15 22:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/14/15 22:53	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/14/15 22:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/14/15 22:53	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/14/15 22:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/14/15 22:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/14/15 22:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/14/15 22:53	75-00-3	L3
Chloroform	ND	ug/L	1.0	1		05/14/15 22:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/14/15 22:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/14/15 22:53	96-12-8	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-Equipment Blank **Lab ID: 92248411001** Collected: 05/05/15 10:20 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	1.0	1		05/14/15 22:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/14/15 22:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/14/15 22:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/14/15 22:53	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/14/15 22:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/14/15 22:53	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/14/15 22:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/14/15 22:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/14/15 22:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/14/15 22:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/14/15 22:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/14/15 22:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/14/15 22:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/14/15 22:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/14/15 22:53	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/14/15 22:53	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/14/15 22:53	74-88-4	
Methylene Chloride	**1.8**	ug/L	1.0	1		05/14/15 22:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/14/15 22:53	108-10-1	
Styrene	ND	ug/L	1.0	1		05/14/15 22:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/14/15 22:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/14/15 22:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/14/15 22:53	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/14/15 22:53	109-99-9	
Toluene	ND	ug/L	1.0	1		05/14/15 22:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/14/15 22:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/14/15 22:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/14/15 22:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/14/15 22:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/14/15 22:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/14/15 22:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/14/15 22:53	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/14/15 22:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/14/15 22:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/14/15 22:53	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		05/14/15 22:53	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/14/15 22:53	2037-26-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW8 **Lab ID: 92248411002** Collected: 05/05/15 12:30 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/05/15 12:30		
Field pH	**5.7**	Std. Units	0.10	1		05/05/15 12:30		
Field Temperature	**16.1**	deg C	0.50	1		05/05/15 12:30		
Static Water Level	**16.85**	feet		1		05/05/15 12:30		
Field Specific Conductance	**50.9**	umhos/cm	1.0	1		05/05/15 12:30		
Oxygen, Dissolved	**5.7**	mg/L		1		05/05/15 12:30	7782-44-7	
Total Well Depth	**27**	feet		1		05/05/15 12:30		
REDOX	**255.2**	mV		1		05/05/15 12:30		
Turbidity	**2.3**	NTU	1.0	1		05/05/15 12:30		
Odor	**NONE**			1		05/05/15 12:30		
Appearance	**CLEAR**			1		05/05/15 12:30		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:16	7440-38-2	
Barium	**30.0**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:16	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:16	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-48-4	
Copper	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-50-8	
Iron	**54.0**	ug/L	50.0	1	05/07/15 18:05	05/08/15 21:16	7439-89-6	
Lead	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7439-92-1	
Manganese	**3.4J**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:16	7782-49-2	
Silver	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-22-4	
Sodium	**6940**	ug/L	5000	1	05/07/15 18:05	05/08/15 21:16	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/07/15 18:05	05/08/15 21:16	7440-28-0	
Tin	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-31-5	
Vanadium	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:16	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:16	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/07/15 10:15	05/07/15 16:50	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/14/15 23:09	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/14/15 23:09	107-13-1	
Benzene	ND	ug/L	1.0	1		05/14/15 23:09	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/14/15 23:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/14/15 23:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/14/15 23:09	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/14/15 23:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/14/15 23:09	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/14/15 23:09	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW8 **Lab ID: 92248411002** Collected: 05/05/15 12:30 Received: 05/05/15 19:00 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		05/14/15 23:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/14/15 23:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/14/15 23:09	75-00-3	L3
Chloroform	ND	ug/L	1.0	1		05/14/15 23:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/14/15 23:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/14/15 23:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/14/15 23:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/14/15 23:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/14/15 23:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/14/15 23:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/14/15 23:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/14/15 23:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/14/15 23:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/14/15 23:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/14/15 23:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/14/15 23:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/14/15 23:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/14/15 23:09	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/14/15 23:09	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/14/15 23:09	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/14/15 23:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/14/15 23:09	108-10-1	
Styrene	ND	ug/L	1.0	1		05/14/15 23:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/14/15 23:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/14/15 23:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/14/15 23:09	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/14/15 23:09	109-99-9	
Toluene	ND	ug/L	1.0	1		05/14/15 23:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/14/15 23:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/14/15 23:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/14/15 23:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/14/15 23:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/14/15 23:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/14/15 23:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/14/15 23:09	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/14/15 23:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/14/15 23:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		05/14/15 23:09	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		05/14/15 23:09	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/14/15 23:09	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**20000**	ug/L	5000	1		05/12/15 18:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW8 **Lab ID: 92248411002** Collected: 05/05/15 12:30 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**61000**	ug/L	25000	1		05/06/15 23:26		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/07/15 17:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1860J**	ug/L	2000	1		05/08/15 22:12	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**1960**	ug/L	1000	1		05/09/15 02:16	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/16/15 15:20	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW9 **Lab ID: 92248411003** Collected: 05/05/15 13:40 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/05/15 13:40		
Field pH	**5.5**	Std. Units	0.10	1		05/05/15 13:40		
Field Temperature	**17.5**	deg C	0.50	1		05/05/15 13:40		
Static Water Level	**53.36**	feet		1		05/05/15 13:40		
Field Specific Conductance	**148.3**	umhos/cm	1.0	1		05/05/15 13:40		
Oxygen, Dissolved	**6.3**	mg/L		1		05/05/15 13:40	7782-44-7	
Total Well Depth	**60.0**	feet		1		05/05/15 13:40		
REDOX	**206.8**	mV		1		05/05/15 13:40		
Turbidity	**1.4**	NTU	1.0	1		05/05/15 13:40		
Odor	**NONE**			1		05/05/15 13:40		
Appearance	**CLEAR**			1		05/05/15 13:40		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:19	7440-38-2	
Barium	**182**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:19	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:19	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-48-4	
Copper	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-50-8	
Iron	ND	ug/L	50.0	1	05/07/15 18:05	05/08/15 21:19	7439-89-6	
Lead	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7439-92-1	
Manganese	**3.5J**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:19	7782-49-2	
Silver	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-22-4	
Sodium	**14500**	ug/L	5000	1	05/07/15 18:05	05/08/15 21:19	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/07/15 18:05	05/08/15 21:19	7440-28-0	
Tin	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-31-5	
Vanadium	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:19	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/07/15 10:15	05/07/15 16:53	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/14/15 23:26	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/14/15 23:26	107-13-1	
Benzene	ND	ug/L	1.0	1		05/14/15 23:26	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/14/15 23:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/14/15 23:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/14/15 23:26	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/14/15 23:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/14/15 23:26	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/14/15 23:26	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW9 **Lab ID: 92248411003** Collected: 05/05/15 13:40 Received: 05/05/15 19:00 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		05/14/15 23:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/14/15 23:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/14/15 23:26	75-00-3	L3
Chloroform	ND	ug/L	1.0	1		05/14/15 23:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/14/15 23:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/14/15 23:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/14/15 23:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/14/15 23:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/14/15 23:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/14/15 23:26	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/14/15 23:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/14/15 23:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/14/15 23:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/14/15 23:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/14/15 23:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/14/15 23:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/14/15 23:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/14/15 23:26	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/14/15 23:26	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/14/15 23:26	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/14/15 23:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/14/15 23:26	108-10-1	
Styrene	ND	ug/L	1.0	1		05/14/15 23:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/14/15 23:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/14/15 23:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/14/15 23:26	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/14/15 23:26	109-99-9	
Toluene	ND	ug/L	1.0	1		05/14/15 23:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/14/15 23:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/14/15 23:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/14/15 23:26	79-01-6	
Trichlorofluoromethane	**0.98J**	ug/L	1.0	1		05/14/15 23:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/14/15 23:26	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/14/15 23:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/14/15 23:26	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/14/15 23:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/14/15 23:26	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		05/14/15 23:26	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/14/15 23:26	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/14/15 23:26	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**18900**	ug/L	5000	1		05/12/15 18:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW9 **Lab ID: 92248411003** Collected: 05/05/15 13:40 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**134000**	ug/L	25000	1		05/06/15 23:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/07/15 17:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**2030**	ug/L	2000	1		05/08/15 23:20	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**4290**	ug/L	1000	1		05/09/15 02:17	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/16/15 15:21	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW14 **Lab ID: 92248411004** Collected: 05/05/15 14:45 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/05/15 14:45		
Field pH	**5.6**	Std. Units	0.10	1		05/05/15 14:45		
Field Temperature	**17.1**	deg C	0.50	1		05/05/15 14:45		
Static Water Level	**52.23**	feet		1		05/05/15 14:45		
Field Specific Conductance	**150.1**	umhos/cm	1.0	1		05/05/15 14:45		
Oxygen, Dissolved	**5.2**	mg/L		1		05/05/15 14:45	7782-44-7	
Total Well Depth	**60.0**	feet		1		05/05/15 14:45		
REDOX	**221.2**	mV		1		05/05/15 14:45		
Turbidity	**26.1**	NTU	1.0	1		05/05/15 14:45		
Odor	**NONE**			1		05/05/15 14:45		
Appearance	**CLEAR**			1		05/05/15 14:45		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:23	7440-38-2	
Barium	**179**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-39-3	
Beryllium	**0.54J**	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:23	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:23	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-48-4	
Copper	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-50-8	
Iron	**695**	ug/L	50.0	1	05/07/15 18:05	05/08/15 21:23	7439-89-6	
Lead	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7439-92-1	
Manganese	**25.7**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7439-96-5	
Nickel	**2.8J**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:23	7782-49-2	
Silver	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-22-4	
Sodium	**14500**	ug/L	5000	1	05/07/15 18:05	05/08/15 21:23	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/07/15 18:05	05/08/15 21:23	7440-28-0	
Tin	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-31-5	
Vanadium	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:23	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:23	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/07/15 10:15	05/07/15 16:55	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/14/15 23:43	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/14/15 23:43	107-13-1	
Benzene	ND	ug/L	1.0	1		05/14/15 23:43	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/14/15 23:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/14/15 23:43	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/14/15 23:43	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/14/15 23:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/14/15 23:43	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/14/15 23:43	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW14 **Lab ID: 92248411004** Collected: 05/05/15 14:45 Received: 05/05/15 19:00 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		05/14/15 23:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/14/15 23:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/14/15 23:43	75-00-3	L3
Chloroform	ND	ug/L	1.0	1		05/14/15 23:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/14/15 23:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/14/15 23:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/14/15 23:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/14/15 23:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/14/15 23:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/14/15 23:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/14/15 23:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/14/15 23:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/14/15 23:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/14/15 23:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/14/15 23:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/14/15 23:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/14/15 23:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/14/15 23:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/14/15 23:43	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/14/15 23:43	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/14/15 23:43	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/14/15 23:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/14/15 23:43	108-10-1	
Styrene	ND	ug/L	1.0	1		05/14/15 23:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/14/15 23:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/14/15 23:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/14/15 23:43	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/14/15 23:43	109-99-9	
Toluene	ND	ug/L	1.0	1		05/14/15 23:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/14/15 23:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/14/15 23:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/14/15 23:43	79-01-6	
Trichlorofluoromethane	**0.59J**	ug/L	1.0	1		05/14/15 23:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/14/15 23:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/14/15 23:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/14/15 23:43	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/14/15 23:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/14/15 23:43	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/14/15 23:43	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		05/14/15 23:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/14/15 23:43	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**45200**	ug/L	5000	1		05/12/15 18:29		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW14 **Lab ID: 92248411004** Collected: 05/05/15 14:45 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**131000**	ug/L	25000	1		05/06/15 23:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/07/15 17:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1790J**	ug/L	2000	1		05/08/15 23:34	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3510**	ug/L	1000	1		05/09/15 02:18	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/16/15 15:23	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW13 **Lab ID: 92248411005** Collected: 05/05/15 17:10 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/05/15 17:10		
Field pH	**5.7**	Std. Units	0.10	1		05/05/15 17:10		
Field Temperature	**18.7**	deg C	0.50	1		05/05/15 17:10		
Static Water Level	**8.98**	feet		1		05/05/15 17:10		
Field Specific Conductance	**115.0**	umhos/cm	1.0	1		05/05/15 17:10		
Oxygen, Dissolved	**2.7**	mg/L		1		05/05/15 17:10	7782-44-7	
Total Well Depth	**20.0**	feet		1		05/05/15 17:10		
REDOX	**218.9**	mV		1		05/05/15 17:10		
Turbidity	**32.7**	NTU	1.0	1		05/05/15 17:10		
Odor	**NONE**			1		05/05/15 17:10		
Appearance	**CLEAR**			1		05/05/15 17:10		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:26	7440-38-2	
Barium	**89.3**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-39-3	
Beryllium	**0.66J**	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:26	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:26	7440-43-9	
Chromium	**2.9J**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-48-4	
Copper	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-50-8	
Iron	**1400**	ug/L	50.0	1	05/07/15 18:05	05/08/15 21:26	7439-89-6	
Lead	**2.9J**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7439-92-1	
Manganese	**41.2**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:26	7782-49-2	
Silver	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-22-4	
Sodium	**10700**	ug/L	5000	1	05/07/15 18:05	05/08/15 21:26	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/07/15 18:05	05/08/15 21:26	7440-28-0	
Tin	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-31-5	
Vanadium	**3.4J**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:26	7440-62-2	
Zinc	**7.9J**	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 16:35	05/11/15 15:29	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 00:00	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 00:00	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 00:00	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 00:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 00:00	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 00:00	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 00:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 00:00	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 00:00	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW13 **Lab ID: 92248411005** Collected: 05/05/15 17:10 Received: 05/05/15 19:00 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		05/15/15 00:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 00:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 00:00	75-00-3	L3
Chloroform	ND	ug/L	1.0	1		05/15/15 00:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 00:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 00:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 00:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 00:00	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 00:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 00:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 00:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 00:00	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 00:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 00:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 00:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 00:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 00:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 00:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 00:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 00:00	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 00:00	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 00:00	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 00:00	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 00:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 00:00	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 00:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 00:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 00:00	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 00:00	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 00:00	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 00:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 00:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 00:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 00:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 00:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 00:00	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 00:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 00:00	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 00:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 00:00	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/15/15 00:00	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 00:00	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/15/15 00:00	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**36900**	ug/L	5000	1		05/12/15 18:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW13 **Lab ID: 92248411005** Collected: 05/05/15 17:10 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**107000**	ug/L	25000	1		05/06/15 23:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/07/15 17:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**9330**	ug/L	2000	1		05/08/15 23:47	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3760**	ug/L	1000	1		05/09/15 02:18	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/16/15 15:24	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW15 **Lab ID: 92248411006** Collected: 05/05/15 16:30 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/05/15 16:30		
Field pH	**6.2**	Std. Units	0.10	1		05/05/15 16:30		
Field Temperature	**17.3**	deg C	0.50	1		05/05/15 16:30		
Static Water Level	**39.21**	feet		1		05/05/15 16:30		
Field Specific Conductance	**611**	umhos/cm	1.0	1		05/05/15 16:30		
Oxygen, Dissolved	**2.0**	mg/L		1		05/05/15 16:30	7782-44-7	
Total Well Depth	**50.85**	feet		1		05/05/15 16:30		
REDOX	**176.0**	mV		1		05/05/15 16:30		
Turbidity	**81.7**	NTU	1.0	1		05/05/15 16:30		
Odor	**NONE**			1		05/05/15 16:30		
Appearance	**MURKY**			1		05/05/15 16:30		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	319-84-6	
delta-BHC	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	33213-65-9	
Endrin	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	05/11/15 09:15	05/16/15 04:27	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	05/11/15 09:15	05/16/15 04:27	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	98	%	20-130	1	05/11/15 09:15	05/16/15 04:27	877-09-8	
Decachlorobiphenyl (S)	106	%	20-130	1	05/11/15 09:15	05/16/15 04:27	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	ND	ug/L	0.94	1	05/12/15 16:10	05/14/15 07:08	94-75-7	
Dinoseb	ND	ug/L	0.19	1	05/12/15 16:10	05/14/15 07:08	88-85-7	
2,4,5-T	ND	ug/L	0.19	1	05/12/15 16:10	05/14/15 07:08	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	05/12/15 16:10	05/14/15 07:08	93-72-1	
Surrogates								
2,4-DCAA (S)	79	%	36-130	1	05/12/15 16:10	05/14/15 07:08	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:29	7440-38-2	
Barium	**105**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:29	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/07/15 18:05	05/08/15 21:29	7440-43-9	
Chromium	**7.6**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-48-4	
Copper	**8.8**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-50-8	
Iron	**10600**	ug/L	50.0	1	05/07/15 18:05	05/08/15 21:29	7439-89-6	
Lead	**6.8**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7439-92-1	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW15 **Lab ID: 92248411006** Collected: 05/05/15 16:30 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese	**271**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7439-96-5	
Nickel	**4.3J**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:29	7782-49-2	
Silver	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-22-4	
Sodium	**20300**	ug/L	5000	1	05/07/15 18:05	05/08/15 21:29	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/07/15 18:05	05/08/15 21:29	7440-28-0	
Tin	ND	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-31-5	
Vanadium	**24.7**	ug/L	5.0	1	05/07/15 18:05	05/08/15 21:29	7440-62-2	
Zinc	**49.0**	ug/L	10.0	1	05/07/15 18:05	05/08/15 21:29	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 16:35	05/11/15 15:31	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	05/09/15 09:45	05/18/15 15:25	56-55-3	
Chrysene	ND	ug/L	10.0	1	05/09/15 09:45	05/18/15 15:25	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	05/09/15 09:45	05/18/15 15:25	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	91	%	21-110	1	05/09/15 09:45	05/18/15 15:25	4165-60-0	
2-Fluorobiphenyl (S)	61	%	27-110	1	05/09/15 09:45	05/18/15 15:25	321-60-8	
Terphenyl-d14 (S)	111	%	31-107	1	05/09/15 09:45	05/18/15 15:25	1718-51-0	S3
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 00:33	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 00:33	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 00:33	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 00:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 00:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 00:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 00:33	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 00:33	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 00:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/15 00:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 00:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 00:33	75-00-3	L3,M0
Chloroform	**0.26J**	ug/L	1.0	1		05/15/15 00:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 00:33	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 00:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 00:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 00:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 00:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 00:33	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 00:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 00:33	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 00:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 00:33	107-06-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW15 **Lab ID: 92248411006** Collected: 05/05/15 16:30 Received: 05/05/15 19:00 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		05/15/15 00:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 00:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 00:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 00:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 00:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 00:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 00:33	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 00:33	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 00:33	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 00:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 00:33	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 00:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 00:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 00:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 00:33	127-18-4	
Tetrahydrofuran	**16.9**	ug/L	10.0	1		05/15/15 00:33	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 00:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 00:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 00:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 00:33	79-01-6	
Trichlorofluoromethane	**4.4**	ug/L	1.0	1		05/15/15 00:33	75-69-4	M1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 00:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 00:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 00:33	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 00:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 00:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/15/15 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		05/15/15 00:33	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/15/15 00:33	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**91500**	ug/L	5000	1		05/12/15 18:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**360000**	ug/L	25000	1		05/06/15 23:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/07/15 17:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**65400**	ug/L	4000	2		05/09/15 10:21	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**98200**	ug/L	10000	10		05/09/15 02:19	16887-00-6	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW15 **Lab ID: 92248411006** Collected: 05/05/15 16:30 Received: 05/05/15 19:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/16/15 15:25	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW2R **Lab ID: 92248411007** Collected: 05/06/15 09:20 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/06/15 09:20		
Field pH	**6.1**	Std. Units	0.10	1		05/06/15 09:20		
Field Temperature	**13.7**	deg C	0.50	1		05/06/15 09:20		
Static Water Level	**8.16**	feet		1		05/06/15 09:20		
Field Specific Conductance	**985**	umhos/cm	1.0	1		05/06/15 09:20		
Oxygen, Dissolved	**1.6**	mg/L		1		05/06/15 09:20	7782-44-7	
Total Well Depth	**21.0**	feet		1		05/06/15 09:20		
REDOX	**15.4**	mV		1		05/06/15 09:20		
Turbidity	**8.8**	NTU	1.0	1		05/06/15 09:20		
Odor	**NONE**			1		05/06/15 09:20		
Appearance	**CLEAR**			1		05/06/15 09:20		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	319-84-6	
delta-BHC	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	33213-65-9	
Endrin	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:30	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	05/13/15 14:00	05/15/15 18:30	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	102	%	20-130	1	05/13/15 14:00	05/15/15 18:30	877-09-8	
Decachlorobiphenyl (S)	78	%	20-130	1	05/13/15 14:00	05/15/15 18:30	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	**0.43J**	ug/L	0.96	1	05/12/15 16:10	05/14/15 12:41	94-75-7	
2,4,5-TP (Silvex)	**0.14J**	ug/L	0.19	1	05/12/15 16:10	05/14/15 12:41	93-72-1	
Surrogates								
2,4-DCAA (S)	89	%	36-130	1	05/12/15 16:10	05/14/15 12:41	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:00	7440-38-2	
Barium	**287**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:00	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:00	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-47-3	
Cobalt	**20.3**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-48-4	
Copper	**6.3**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-50-8	
Iron	**9560**	ug/L	50.0	1	05/14/15 12:35	05/15/15 18:00	7439-89-6	
Lead	**3.3J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7439-92-1	
Manganese	**11900**	ug/L	50.0	10	05/14/15 12:35	05/18/15 10:35	7439-96-5	M6
Nickel	**17.0**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-02-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW2R **Lab ID: 92248411007** Collected: 05/06/15 09:20 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:00	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-22-4	
Sodium	**51400**	ug/L	5000	1	05/14/15 12:35	05/15/15 18:00	7440-23-5	
Thallium	**5.1J**	ug/L	5.4	1	05/14/15 12:35	05/15/15 18:00	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-31-5	
Vanadium	**11.4**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:00	7440-62-2	
Zinc	**8.7J**	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:36	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	05/09/15 09:45	05/18/15 17:59	56-55-3	
Chrysene	ND	ug/L	10.0	1	05/09/15 09:45	05/18/15 17:59	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	05/09/15 09:45	05/18/15 17:59	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	97	%	21-110	1	05/09/15 09:45	05/18/15 17:59	4165-60-0	
2-Fluorobiphenyl (S)	70	%	27-110	1	05/09/15 09:45	05/18/15 17:59	321-60-8	
Terphenyl-d14 (S)	86	%	31-107	1	05/09/15 09:45	05/18/15 17:59	1718-51-0	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 05:03	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 05:03	107-13-1	
Benzene	**1.7**	ug/L	1.0	1		05/15/15 05:03	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 05:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 05:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 05:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 05:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 05:03	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 05:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/15 05:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 05:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 05:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 05:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 05:03	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 05:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 05:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 05:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 05:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 05:03	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 05:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 05:03	110-57-6	
1,1-Dichloroethane	**0.49J**	ug/L	1.0	1		05/15/15 05:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 05:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:03	156-59-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW2R **Lab ID: 92248411007** Collected: 05/06/15 09:20 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 05:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 05:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 05:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 05:03	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 05:03	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 05:03	74-88-4	
Methylene Chloride	**2.3**	ug/L	1.0	1		05/15/15 05:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 05:03	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 05:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 05:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 05:03	79-34-5	
Tetrachloroethene	**1.2**	ug/L	1.0	1		05/15/15 05:03	127-18-4	
Tetrahydrofuran	**34.6**	ug/L	10.0	1		05/15/15 05:03	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 05:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 05:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 05:03	79-00-5	
Trichloroethene	**0.79J**	ug/L	1.0	1		05/15/15 05:03	79-01-6	
Trichlorofluoromethane	**1.5**	ug/L	1.0	1		05/15/15 05:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 05:03	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 05:03	108-05-4	
Vinyl chloride	**0.70J**	ug/L	1.0	1		05/15/15 05:03	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 05:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 05:03	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/15/15 05:03	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		05/15/15 05:03	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/15/15 05:03	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**358000**	ug/L	5000	1		05/12/15 19:59		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**632000**	ug/L	25000	1		05/11/15 12:15		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**98400**	ug/L	10000	5		05/09/15 00:14	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**44200**	ug/L	5000	5		05/09/15 02:23	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 09:58	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW4R **Lab ID: 92248411008** Collected: 05/06/15 15:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/06/15 15:30		
Field pH	**5.9**	Std. Units	0.10	1		05/06/15 15:30		
Field Temperature	**13.3**	deg C	0.50	1		05/06/15 15:30		
Static Water Level	**9.08**	feet		1		05/06/15 15:30		
Field Specific Conductance	**422.0**	umhos/cm	1.0	1		05/06/15 15:30		
Oxygen, Dissolved	**2.5**	mg/L		1		05/06/15 15:30	7782-44-7	
Total Well Depth	**20**	feet		1		05/06/15 15:30		
REDOX	**262.8**	mV		1		05/06/15 15:30		
Turbidity	**12.2**	NTU	1.0	1		05/06/15 15:30		
Odor	**NONE**			1		05/06/15 15:30		
Appearance	**CLEAR**			1		05/06/15 15:30		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	319-84-6	
delta-BHC	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	33213-65-9	
Endrin	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 18:48	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	05/13/15 14:00	05/15/15 18:48	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	93	%	20-130	1	05/13/15 14:00	05/15/15 18:48	877-09-8	
Decachlorobiphenyl (S)	69	%	20-130	1	05/13/15 14:00	05/15/15 18:48	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	ND	ug/L	0.97	1	05/12/15 16:10	05/14/15 13:11	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.20	1	05/12/15 16:10	05/14/15 13:11	93-72-1	
Surrogates								
2,4-DCAA (S)	86	%	36-130	1	05/12/15 16:10	05/14/15 13:11	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:09	7440-38-2	
Barium	**306**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:09	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:09	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-47-3	
Cobalt	**15.2**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-50-8	
Iron	**292**	ug/L	50.0	1	05/14/15 12:35	05/15/15 18:09	7439-89-6	
Lead	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7439-92-1	
Manganese	**315**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7439-96-5	
Nickel	**2.8J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-02-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW4R **Lab ID: 92248411008** Collected: 05/06/15 15:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:09	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-22-4	
Sodium	**23000**	ug/L	5000	1	05/14/15 12:35	05/15/15 18:09	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 18:09	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-31-5	
Vanadium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:09	7440-62-2	
Zinc	**7.5J**	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:38	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	05/09/15 09:45	05/18/15 18:30	56-55-3	
Chrysene	ND	ug/L	10.0	1	05/09/15 09:45	05/18/15 18:30	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	05/09/15 09:45	05/18/15 18:30	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	127	%	21-110	1	05/09/15 09:45	05/18/15 18:30	4165-60-0	S3
2-Fluorobiphenyl (S)	79	%	27-110	1	05/09/15 09:45	05/18/15 18:30	321-60-8	
Terphenyl-d14 (S)	98	%	31-107	1	05/09/15 09:45	05/18/15 18:30	1718-51-0	
Phenol-d6 (S)	29	%	10-110	1	05/09/15 09:45	05/18/15 18:30	13127-88-3	
2-Fluorophenol (S)	43	%	12-110	1	05/09/15 09:45	05/18/15 18:30	367-12-4	
2,4,6-Tribromophenol (S)	95	%	27-110	1	05/09/15 09:45	05/18/15 18:30	118-79-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 05:19	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 05:19	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 05:19	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 05:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 05:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 05:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 05:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 05:19	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 05:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/15 05:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 05:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 05:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 05:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 05:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 05:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 05:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 05:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 05:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 05:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 05:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 05:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 05:19	75-34-3	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW4R **Lab ID: 92248411008** Collected: 05/06/15 15:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 05:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 05:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 05:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 05:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 05:19	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 05:19	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 05:19	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 05:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 05:19	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 05:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 05:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 05:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 05:19	127-18-4	
Tetrahydrofuran	**5.8J**	ug/L	10.0	1		05/15/15 05:19	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 05:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 05:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 05:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 05:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 05:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 05:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 05:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 05:19	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 05:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 05:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		05/15/15 05:19	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 05:19	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/15/15 05:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**117000**	ug/L	5000	1		05/12/15 20:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**304000**	ug/L	25000	1		05/11/15 12:17		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**72700**	ug/L	4000	2		05/09/15 00:28	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**22200**	ug/L	1000	1		05/09/15 02:23	16887-00-6	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW4R **Lab ID: 92248411008** Collected: 05/06/15 15:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 09:59	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW10 **Lab ID: 92248411009** Collected: 05/06/15 10:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/06/15 10:30		
Field pH	**5.2**	Std. Units	0.10	1		05/06/15 10:30		
Field Temperature	**17.1**	deg C	0.50	1		05/06/15 10:30		
Static Water Level	**11.65**	feet		1		05/06/15 10:30		
Field Specific Conductance	**297.2**	umhos/cm	1.0	1		05/06/15 10:30		
Oxygen, Dissolved	**1.5**	mg/L		1		05/06/15 10:30	7782-44-7	
Total Well Depth	**21.0**	feet		1		05/06/15 10:30		
REDOX	**244.7**	mV		1		05/06/15 10:30		
Turbidity	**246.4**	NTU	1.0	1		05/06/15 10:30		
Odor	**NONE**			1		05/06/15 10:30		
Appearance	**MURKY**			1		05/06/15 10:30		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:12	7440-38-2	
Barium	**660**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-39-3	
Beryllium	**2.8**	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:12	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:12	7440-43-9	
Chromium	**6.7**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-47-3	
Cobalt	**4.8J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-48-4	
Copper	**3.8J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-50-8	
Iron	**3650**	ug/L	50.0	1	05/14/15 12:35	05/15/15 18:12	7439-89-6	
Lead	**11.6**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7439-92-1	
Manganese	**736**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7439-96-5	
Nickel	**5.9**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:12	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-22-4	
Sodium	**14100**	ug/L	5000	1	05/14/15 12:35	05/15/15 18:12	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 18:12	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-31-5	
Vanadium	**4.9J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:12	7440-62-2	
Zinc	**21.2**	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.29**	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:41	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 05:36	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 05:36	107-13-1	
Benzene	**0.46J**	ug/L	1.0	1		05/15/15 05:36	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 05:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 05:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 05:36	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 05:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 05:36	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 05:36	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW10 **Lab ID: 92248411009** Collected: 05/06/15 10:30 Received: 05/06/15 18:20 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		05/15/15 05:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 05:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 05:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 05:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 05:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 05:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 05:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 05:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 05:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 05:36	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 05:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 05:36	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 05:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 05:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 05:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 05:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 05:36	10061-02-6	
Ethylbenzene	**1.0**	ug/L	1.0	1		05/15/15 05:36	100-41-4	
2-Hexanone	**0.96J**	ug/L	5.0	1		05/15/15 05:36	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 05:36	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 05:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.6**	ug/L	5.0	1		05/15/15 05:36	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 05:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 05:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 05:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 05:36	127-18-4	
Tetrahydrofuran	**145**	ug/L	10.0	1		05/15/15 05:36	109-99-9	
Toluene	**0.63J**	ug/L	1.0	1		05/15/15 05:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 05:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 05:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 05:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 05:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 05:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 05:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 05:36	75-01-4	
m&p-Xylene	**1.2J**	ug/L	2.0	1		05/15/15 05:36	179601-23-1	
o-Xylene	**0.85J**	ug/L	1.0	1		05/15/15 05:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		05/15/15 05:36	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 05:36	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		05/15/15 05:36	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**47300**	ug/L	5000	1		05/12/15 20:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW10 **Lab ID: 92248411009** Collected: 05/06/15 10:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**279000**	ug/L	25000	1		05/11/15 12:17		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**8770**	ug/L	2000	1		05/09/15 00:42	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**51800**	ug/L	5000	5		05/09/15 03:07	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:00	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW11 **Lab ID: 92248411010** Collected: 05/06/15 11:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/06/15 11:30		
Field pH	**6.0**	Std. Units	0.10	1		05/06/15 11:30		
Field Temperature	**13.4**	deg C	0.50	1		05/06/15 11:30		
Static Water Level	**4.02**	feet		1		05/06/15 11:30		
Field Specific Conductance	**407.8**	umhos/cm	1.0	1		05/06/15 11:30		
Oxygen, Dissolved	**0.3**	mg/L		1		05/06/15 11:30	7782-44-7	
Total Well Depth	**20.0**	feet		1		05/06/15 11:30		
REDOX	**-34.3**	mV		1		05/06/15 11:30		
Turbidity	**8.0**	NTU	1.0	1		05/06/15 11:30		
Odor	**NONE**			1		05/06/15 11:30		
Appearance	**CLEAR**			1		05/06/15 11:30		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:16	7440-38-2	
Barium	**93.7**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:16	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:16	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-47-3	
Cobalt	**2.5J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-50-8	
Iron	**31400**	ug/L	50.0	1	05/14/15 12:35	05/15/15 18:16	7439-89-6	
Lead	**2.9J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7439-92-1	
Manganese	**1990**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:16	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-22-4	
Sodium	**9460**	ug/L	5000	1	05/14/15 12:35	05/15/15 18:16	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 18:16	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-31-5	
Vanadium	**3.2J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:16	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:16	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:43	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 05:53	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 05:53	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 05:53	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 05:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 05:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 05:53	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 05:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 05:53	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 05:53	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW11 **Lab ID: 92248411010** Collected: 05/06/15 11:30 Received: 05/06/15 18:20 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		05/15/15 05:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 05:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 05:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 05:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 05:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 05:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 05:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 05:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 05:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 05:53	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 05:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 05:53	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 05:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 05:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 05:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 05:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 05:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 05:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 05:53	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 05:53	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 05:53	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 05:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 05:53	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 05:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 05:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 05:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 05:53	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 05:53	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 05:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 05:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 05:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 05:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 05:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 05:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 05:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 05:53	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 05:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 05:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		05/15/15 05:53	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 05:53	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/15/15 05:53	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**132000**	ug/L	5000	1		05/12/15 20:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW11 **Lab ID: 92248411010** Collected: 05/06/15 11:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**239000**	ug/L	25000	1		05/11/15 12:17		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**15300**	ug/L	2000	1		05/09/15 00:55	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**14400**	ug/L	1000	1		05/09/15 02:26	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:02	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW12 **Lab ID: 92248411011** Collected: 05/06/15 12:30 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/06/15 12:30		
Field pH	**6.0**	Std. Units	0.10	1		05/06/15 12:30		
Field Temperature	**14.9**	deg C	0.50	1		05/06/15 12:30		
Static Water Level	**4.91**	feet		1		05/06/15 12:30		
Field Specific Conductance	**234.3**	umhos/cm	1.0	1		05/06/15 12:30		
Oxygen, Dissolved	**5.4**	mg/L		1		05/06/15 12:30	7782-44-7	
Total Well Depth	**15.58**	feet		1		05/06/15 12:30		
REDOX	**230.6**	mV		1		05/06/15 12:30		
Turbidity	**7.7**	NTU	1.0	1		05/06/15 12:30		
Odor	**NONE**			1		05/06/15 12:30		
Appearance	**CLEAR**			1		05/06/15 12:30		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:19	7440-38-2	
Barium	**60.9**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:19	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:19	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-50-8	
Iron	**524**	ug/L	50.0	1	05/14/15 12:35	05/15/15 18:19	7439-89-6	
Lead	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7439-92-1	
Manganese	**9.7**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:19	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-22-4	
Sodium	**11200**	ug/L	5000	1	05/14/15 12:35	05/15/15 18:19	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 18:19	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-31-5	
Vanadium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:19	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:45	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 06:10	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 06:10	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 06:10	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 06:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 06:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 06:10	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 06:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 06:10	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 06:10	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW12 **Lab ID: 92248411011** Collected: 05/06/15 12:30 Received: 05/06/15 18:20 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		05/15/15 06:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 06:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 06:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 06:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 06:10	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 06:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 06:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 06:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 06:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 06:10	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 06:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 06:10	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 06:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 06:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 06:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 06:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 06:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 06:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 06:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 06:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 06:10	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 06:10	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 06:10	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 06:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 06:10	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 06:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 06:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 06:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 06:10	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 06:10	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 06:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 06:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 06:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 06:10	79-01-6	
Trichlorofluoromethane	**0.22J**	ug/L	1.0	1		05/15/15 06:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 06:10	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 06:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 06:10	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 06:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 06:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/15/15 06:10	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		05/15/15 06:10	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/15/15 06:10	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**19200**	ug/L	5000	1		05/12/15 20:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW12 **Lab ID: 92248411011** Collected: 05/06/15 12:30 Received: 05/06/15 18:20 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		05/11/15 12:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**73600**	ug/L	4000	2		05/09/15 10:35	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**8070**	ug/L	1000	1		05/09/15 02:27	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:03	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW3R **Lab ID: 92248411012** Collected: 05/06/15 13:25 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/06/15 13:25		
Field pH	**6.1**	Std. Units	0.10	1		05/06/15 13:25		
Field Temperature	**15.0**	deg C	0.50	1		05/06/15 13:25		
Static Water Level	**21.07**	feet		1		05/06/15 13:25		
Field Specific Conductance	**363.4**	umhos/cm	1.0	1		05/06/15 13:25		
Oxygen, Dissolved	**2.0**	mg/L		1		05/06/15 13:25	7782-44-7	
Total Well Depth	**27**	feet		1		05/06/15 13:25		
REDOX	**-1.1**	mV		1		05/06/15 13:25		
Turbidity	**6.2**	NTU	1.0	1		05/06/15 13:25		
Odor	**NONE**			1		05/06/15 13:25		
Appearance	**CLEAR**			1		05/06/15 13:25		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:22	7440-38-2	
Barium	**214**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:22	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:22	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-47-3	
Cobalt	**10.1**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-50-8	
Iron	**56000**	ug/L	50.0	1	05/14/15 12:35	05/15/15 18:22	7439-89-6	
Lead	**2.7J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7439-92-1	
Manganese	**7980**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:22	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-22-4	
Sodium	ND	ug/L	5000	1	05/14/15 12:35	05/15/15 18:22	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 18:22	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-31-5	
Vanadium	**8.8**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:22	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:48	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 06:27	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 06:27	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 06:27	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 06:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 06:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 06:27	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 06:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 06:27	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 06:27	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW3R **Lab ID: 92248411012** Collected: 05/06/15 13:25 Received: 05/06/15 18:20 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		05/15/15 06:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 06:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 06:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 06:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 06:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 06:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 06:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 06:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 06:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 06:27	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 06:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 06:27	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 06:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 06:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 06:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 06:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 06:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 06:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 06:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 06:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 06:27	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 06:27	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 06:27	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 06:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 06:27	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 06:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 06:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 06:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 06:27	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 06:27	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 06:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 06:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 06:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 06:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 06:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 06:27	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 06:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 06:27	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 06:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 06:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/15/15 06:27	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		05/15/15 06:27	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		05/15/15 06:27	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**107000**	ug/L	5000	1		05/12/15 20:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW3R **Lab ID: 92248411012** Collected: 05/06/15 13:25 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**182000**	ug/L	25000	1		05/11/15 12:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**3000**	ug/L	2000	1		05/09/15 01:50	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**2990**	ug/L	1000	1		05/09/15 02:28	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:04	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW7 **Lab ID: 92248411013** Collected: 05/06/15 14:15 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/06/15 14:15		
Field pH	**5.6**	Std. Units	0.10	1		05/06/15 14:15		
Field Temperature	**16.7**	deg C	0.50	1		05/06/15 14:15		
Static Water Level	**37.68**	feet		1		05/06/15 14:15		
Field Specific Conductance	**194.8**	umhos/cm	1.0	1		05/06/15 14:15		
Oxygen, Dissolved	**0.4**	mg/L		1		05/06/15 14:15	7782-44-7	
Total Well Depth	**48**	feet		1		05/06/15 14:15		
REDOX	**228.8**	mV		1		05/06/15 14:15		
Turbidity	**1.2**	NTU	1.0	1		05/06/15 14:15		
Odor	**NONE**			1		05/06/15 14:15		
Appearance	**CLEAR**			1		05/06/15 14:15		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:34	7440-38-2	
Barium	**122**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:34	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 18:34	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-50-8	
Iron	ND	ug/L	50.0	1	05/14/15 12:35	05/15/15 18:34	7439-89-6	
Lead	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7439-92-1	
Manganese	**27.1**	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:34	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-22-4	
Sodium	**16300**	ug/L	5000	1	05/14/15 12:35	05/15/15 18:34	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 18:34	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-31-5	
Vanadium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 18:34	7440-62-2	
Zinc	**6.8J**	ug/L	10.0	1	05/14/15 12:35	05/15/15 18:34	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:50	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 06:44	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 06:44	107-13-1	
Benzene	**0.29J**	ug/L	1.0	1		05/15/15 06:44	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 06:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 06:44	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 06:44	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 06:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 06:44	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 06:44	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW7 **Lab ID: 92248411013** Collected: 05/06/15 14:15 Received: 05/06/15 18:20 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		05/15/15 06:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 06:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 06:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 06:44	67-66-3	
Chloromethane	**0.13J**	ug/L	1.0	1		05/15/15 06:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 06:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 06:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 06:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 06:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 06:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 06:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 06:44	110-57-6	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		05/15/15 06:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 06:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 06:44	75-35-4	
cis-1,2-Dichloroethene	**0.73J**	ug/L	1.0	1		05/15/15 06:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 06:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 06:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 06:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 06:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 06:44	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 06:44	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 06:44	74-88-4	
Methylene Chloride	**2.1**	ug/L	1.0	1		05/15/15 06:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 06:44	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 06:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 06:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 06:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 06:44	127-18-4	
Tetrahydrofuran	**14.1**	ug/L	10.0	1		05/15/15 06:44	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 06:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 06:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 06:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 06:44	79-01-6	
Trichlorofluoromethane	**0.79J**	ug/L	1.0	1		05/15/15 06:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 06:44	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 06:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 06:44	75-01-4	
m&p-Xylene	**1.5J**	ug/L	2.0	1		05/15/15 06:44	179601-23-1	
o-Xylene	**0.40J**	ug/L	1.0	1		05/15/15 06:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/15/15 06:44	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 06:44	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		05/15/15 06:44	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**64100**	ug/L	5000	1		05/12/15 21:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW7 **Lab ID: 92248411013** Collected: 05/06/15 14:15 Received: 05/06/15 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**145000**	ug/L	25000	1		05/11/15 12:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1850J**	ug/L	2000	1		05/09/15 02:30	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**4340**	ug/L	1000	1		05/09/15 02:28	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:05	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW1R **Lab ID: 92248411014** Collected: 05/07/15 09:50 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/07/15 09:50		
Field pH	**5.5**	Std. Units	0.10	1		05/07/15 09:50		
Field Temperature	**18.0**	deg C	0.50	1		05/07/15 09:50		
Static Water Level	**35.69**	feet		1		05/07/15 09:50		
Field Specific Conductance	**153.1**	umhos/cm	1.0	1		05/07/15 09:50		
Oxygen, Dissolved	**4.5**	mg/L		1		05/07/15 09:50	7782-44-7	
Total Well Depth	**60**	feet		1		05/07/15 09:50		
REDOX	**265.1**	mV		1		05/07/15 09:50		
Turbidity	**1.2**	NTU	1.0	1		05/07/15 09:50		
Odor	**NONE**			1		05/07/15 09:50		
Appearance	**CLEAR**			1		05/07/15 09:50		
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	319-84-6	
delta-BHC	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	319-86-8	
4,4'-DDD	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	72-54-8	
4,4'-DDT	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	50-29-3	
Endosulfan II	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	33213-65-9	
Endrin	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	7421-93-4	
Heptachlor	ND	ug/L	0.050	1	05/13/15 14:00	05/15/15 22:54	76-44-8	
Methoxychlor	ND	ug/L	0.15	1	05/13/15 14:00	05/15/15 22:54	72-43-5	
Surrogates								
Tetrachloro-m-xylene (S)	105	%	20-130	1	05/13/15 14:00	05/15/15 22:54	877-09-8	
Decachlorobiphenyl (S)	91	%	20-130	1	05/13/15 14:00	05/15/15 22:54	2051-24-3	
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151							
2,4-D	ND	ug/L	0.96	1	05/13/15 15:30	05/14/15 20:46	94-75-7	
2,4,5-TP (Silvex)	ND	ug/L	0.19	1	05/13/15 15:30	05/14/15 20:46	93-72-1	
Surrogates								
2,4-DCAA (S)	78	%	36-130	1	05/13/15 15:30	05/14/15 20:46	19719-28-9	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:03	7440-38-2	
Barium	**164**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:03	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:03	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-50-8	
Iron	ND	ug/L	50.0	1	05/14/15 12:35	05/15/15 19:03	7439-89-6	
Lead	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7439-92-1	
Manganese	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-02-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW1R **Lab ID: 92248411014** Collected: 05/07/15 09:50 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:03	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-22-4	
Sodium	**11600**	ug/L	5000	1	05/14/15 12:35	05/15/15 19:03	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 19:03	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-31-5	
Vanadium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:03	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:03	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:55	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzo(a)anthracene	ND	ug/L	10.0	1	05/09/15 09:45	05/20/15 23:38	56-55-3	
Chrysene	ND	ug/L	10.0	1	05/09/15 09:45	05/20/15 23:38	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	05/09/15 09:45	05/20/15 23:38	117-81-7	
Surrogates								
Nitrobenzene-d5 (S)	112	%	21-110	1	05/09/15 09:45	05/20/15 23:38	4165-60-0	S3
2-Fluorobiphenyl (S)	78	%	27-110	1	05/09/15 09:45	05/20/15 23:38	321-60-8	
Terphenyl-d14 (S)	114	%	31-107	1	05/09/15 09:45	05/20/15 23:38	1718-51-0	S3
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 07:01	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 07:01	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 07:01	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 07:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 07:01	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 07:01	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 07:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 07:01	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 07:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/15 07:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 07:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 07:01	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 07:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 07:01	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 07:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 07:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 07:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 07:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 07:01	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 07:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 07:01	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 07:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 07:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:01	156-59-2	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW1R **Lab ID: 92248411014** Collected: 05/07/15 09:50 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 07:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 07:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 07:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 07:01	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 07:01	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 07:01	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 07:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 07:01	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 07:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 07:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 07:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 07:01	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 07:01	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 07:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 07:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 07:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 07:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 07:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 07:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 07:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 07:01	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 07:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 07:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/15/15 07:01	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 07:01	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/15/15 07:01	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**39600**	ug/L	5000	1		05/12/15 21:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**133000**	ug/L	25000	1		05/11/15 13:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**1700J**	ug/L	2000	1		05/09/15 02:44	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**7640**	ug/L	1000	1		05/09/15 02:29	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:24	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW5R **Lab ID: 92248411015** Collected: 05/07/15 11:10 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/07/15 11:10		
Field pH	**5.9**	Std. Units	0.10	1		05/07/15 11:10		
Field Temperature	**14.7**	deg C	0.50	1		05/07/15 11:10		
Static Water Level	**10.91**	feet		1		05/07/15 11:10		
Field Specific Conductance	**175.1**	umhos/cm	1.0	1		05/07/15 11:10		
Oxygen, Dissolved	**6.8**	mg/L		1		05/07/15 11:10	7782-44-7	
Total Well Depth	**30**	feet		1		05/07/15 11:10		
REDOX	**244.4**	mV		1		05/07/15 11:10		
Turbidity	**2.2**	NTU	1.0	1		05/07/15 11:10		
Odor	**NONE**			1		05/07/15 11:10		
Appearance	**CLEAR**			1		05/07/15 11:10		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:15	7440-38-2	
Barium	**54.0**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:15	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:15	7440-43-9	
Chromium	**4.8J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-50-8	
Iron	**113**	ug/L	50.0	1	05/14/15 12:35	05/15/15 19:15	7439-89-6	
Lead	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7439-92-1	
Manganese	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:15	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-22-4	
Sodium	**13100**	ug/L	5000	1	05/14/15 12:35	05/15/15 19:15	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 19:15	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-31-5	
Vanadium	**4.3J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:15	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 13:57	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 07:18	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 07:18	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 07:18	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 07:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 07:18	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 07:18	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 07:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 07:18	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 07:18	75-15-0	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW5R **Lab ID: 92248411015** Collected: 05/07/15 11:10 Received: 05/07/15 15:14 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		05/15/15 07:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 07:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/15 07:18	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 07:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 07:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 07:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 07:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 07:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 07:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 07:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 07:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 07:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 07:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 07:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 07:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 07:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 07:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 07:18	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 07:18	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 07:18	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 07:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 07:18	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 07:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 07:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 07:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 07:18	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 07:18	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 07:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 07:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 07:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 07:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 07:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 07:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 07:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 07:18	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 07:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 07:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/15/15 07:18	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		05/15/15 07:18	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		05/15/15 07:18	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**28600**	ug/L	5000	1		05/13/15 19:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-MW5R **Lab ID: 92248411015** Collected: 05/07/15 11:10 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**166000**	ug/L	25000	1		05/11/15 13:24		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**8000**	ug/L	2000	1		05/09/15 02:57	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**15700**	ug/L	1000	1		05/09/15 02:31	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:25	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW2 **Lab ID: 92248411016** Collected: 05/07/15 11:40 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/07/15 11:40		
Field pH	**6.5**	Std. Units	0.10	1		05/07/15 11:40		
Field Temperature	**19.7**	deg C	0.50	1		05/07/15 11:40		
Field Specific Conductance	**185.9**	umhos/cm	1.0	1		05/07/15 11:40		
Oxygen, Dissolved	**0.2**	mg/L		1		05/07/15 11:40	7782-44-7	
REDOX	**-79.4**	mV		1		05/07/15 11:40		
Turbidity	**385.5**	NTU	1.0	1		05/07/15 11:40		
Odor	**NONE**			1		05/07/15 11:40		
Appearance	**MURKY**			1		05/07/15 11:40		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-36-0	
Arsenic	**17.0**	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:18	7440-38-2	
Barium	**700**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-39-3	
Beryllium	**3.7**	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:18	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:18	7440-43-9	
Chromium	**40.3**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-47-3	
Cobalt	**5.9**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-48-4	
Copper	**81.6**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-50-8	
Iron	**226000**	ug/L	500	10	05/14/15 12:35	05/18/15 10:44	7439-89-6	
Lead	**75.0**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7439-92-1	
Manganese	**1020**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7439-96-5	
Nickel	**16.4**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:18	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-22-4	
Sodium	**8390**	ug/L	5000	1	05/14/15 12:35	05/15/15 19:18	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 19:18	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-31-5	
Vanadium	**127**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:18	7440-62-2	
Zinc	**249**	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.20**	ug/L	0.20	1	05/09/15 17:30	05/14/15 14:04	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 07:34	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 07:34	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 07:34	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 07:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 07:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 07:34	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 07:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 07:34	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 07:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/15 07:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 07:34	108-90-7	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW2 **Lab ID: 92248411016** Collected: 05/07/15 11:40 Received: 05/07/15 15:14 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		05/15/15 07:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 07:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 07:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 07:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 07:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 07:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 07:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 07:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 07:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 07:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 07:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 07:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 07:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 07:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 07:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 07:34	100-41-4	
2-Hexanone	**1.8J**	ug/L	5.0	1		05/15/15 07:34	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 07:34	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 07:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 07:34	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 07:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 07:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 07:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 07:34	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 07:34	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 07:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 07:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 07:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 07:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 07:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 07:34	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 07:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 07:34	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 07:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 07:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		05/15/15 07:34	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 07:34	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/15/15 07:34	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**33200**	ug/L	5000	1		05/14/15 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW2 **Lab ID: 92248411016** Collected: 05/07/15 11:40 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**125000**	ug/L	25000	1		05/11/15 13:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	1000	10		05/11/15 16:30	18496-25-8	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**7280**	ug/L	2000	1		05/09/15 03:11	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**4050**	ug/L	1000	1		05/09/15 02:32	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:26	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW3 **Lab ID: 92248411017** Collected: 05/07/15 12:05 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/07/15 12:05		
Field pH	**6.9**	Std. Units	0.10	1		05/07/15 12:05		
Field Temperature	**17.5**	deg C	0.50	1		05/07/15 12:05		
Field Specific Conductance	**364.2**	umhos/cm	1.0	1		05/07/15 12:05		
Oxygen, Dissolved	**6.9**	mg/L		1		05/07/15 12:05	7782-44-7	
REDOX	**-15.8**	mV		1		05/07/15 12:05		
Turbidity	**42.7**	NTU	1.0	1		05/07/15 12:05		
Odor	**NONE**			1		05/07/15 12:05		
Appearance	**MURKY**			1		05/07/15 12:05		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:21	7440-38-2	
Barium	**105**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:21	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:21	7440-43-9	
Chromium	**3.4J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-48-4	
Copper	**4.4J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-50-8	
Iron	**4940**	ug/L	50.0	1	05/14/15 12:35	05/15/15 19:21	7439-89-6	
Lead	**2.7J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7439-92-1	
Manganese	**1420**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7439-96-5	
Nickel	**2.8J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:21	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-22-4	
Sodium	**18200**	ug/L	5000	1	05/14/15 12:35	05/15/15 19:21	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 19:21	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-31-5	
Vanadium	**9.7**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:21	7440-62-2	
Zinc	**13.6**	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 14:07	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 07:51	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 07:51	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 07:51	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 07:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 07:51	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 07:51	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 07:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 07:51	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 07:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/15 07:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 07:51	108-90-7	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW3 **Lab ID: 92248411017** Collected: 05/07/15 12:05 Received: 05/07/15 15:14 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		05/15/15 07:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 07:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 07:51	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 07:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 07:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 07:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 07:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 07:51	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 07:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 07:51	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 07:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 07:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 07:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 07:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 07:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 07:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 07:51	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 07:51	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 07:51	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 07:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 07:51	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 07:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 07:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 07:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 07:51	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 07:51	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 07:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 07:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 07:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 07:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 07:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 07:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 07:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 07:51	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 07:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 07:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/15/15 07:51	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 07:51	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/15/15 07:51	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**118000**	ug/L	5000	1		05/14/15 16:01		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW3 **Lab ID: 92248411017** Collected: 05/07/15 12:05 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**233000**	ug/L	25000	1		05/11/15 13:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**17000**	ug/L	2000	1		05/09/15 03:25	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**27000**	ug/L	1000	1		05/09/15 02:33	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:27	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW4 **Lab ID: 92248411018** Collected: 05/07/15 12:30 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/07/15 12:30		
Field pH	**6.5**	Std. Units	0.10	1		05/07/15 12:30		
Field Temperature	**18.2**	deg C	0.50	1		05/07/15 12:30		
Field Specific Conductance	**603**	umhos/cm	1.0	1		05/07/15 12:30		
Oxygen, Dissolved	**3.5**	mg/L		1		05/07/15 12:30	7782-44-7	
REDOX	**-25.5**	mV		1		05/07/15 12:30		
Turbidity	**18.6**	NTU	1.0	1		05/07/15 12:30		
Odor	**NONE**			1		05/07/15 12:30		
Appearance	**MURKY**			1		05/07/15 12:30		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:24	7440-38-2	
Barium	**187**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:24	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-47-3	
Cobalt	**5.9**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-50-8	
Iron	**9220**	ug/L	50.0	1	05/14/15 12:35	05/15/15 19:24	7439-89-6	
Lead	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7439-92-1	
Manganese	**5050**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7439-96-5	
Nickel	**3.6J**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:24	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-22-4	
Sodium	**23800**	ug/L	5000	1	05/14/15 12:35	05/15/15 19:24	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 19:24	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-31-5	
Vanadium	**5.9**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:24	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 14:09	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 08:08	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 08:08	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 08:08	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 08:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 08:08	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 08:08	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 08:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 08:08	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 08:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/15 08:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 08:08	108-90-7	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW4 **Lab ID: 92248411018** Collected: 05/07/15 12:30 Received: 05/07/15 15:14 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		05/15/15 08:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/15/15 08:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 08:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 08:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 08:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 08:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 08:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 08:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 08:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 08:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 08:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 08:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 08:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 08:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 08:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 08:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 08:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 08:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 08:08	100-41-4	
2-Hexanone	**3.1J**	ug/L	5.0	1		05/15/15 08:08	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 08:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 08:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 08:08	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 08:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 08:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 08:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 08:08	127-18-4	
Tetrahydrofuran	**4.1J**	ug/L	10.0	1		05/15/15 08:08	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 08:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 08:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 08:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/15 08:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 08:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 08:08	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 08:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 08:08	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 08:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 08:08	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		05/15/15 08:08	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		05/15/15 08:08	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		05/15/15 08:08	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**242000**	ug/L	5000	1		05/14/15 16:13		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW4 **Lab ID: 92248411018** Collected: 05/07/15 12:30 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**371000**	ug/L	25000	1		05/11/15 13:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**23500**	ug/L	2000	1		05/09/15 03:38	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**19000**	ug/L	1000	1		05/09/15 02:33	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:28	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW1 **Lab ID: 92248411019** Collected: 05/07/15 12:50 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:							
Collected By	**JJQ**			1		05/07/15 12:50		
Field pH	**6.3**	Std. Units	0.10	1		05/07/15 12:50		
Field Temperature	**20.4**	deg C	0.50	1		05/07/15 12:50		
Field Specific Conductance	**228.7**	umhos/cm	1.0	1		05/07/15 12:50		
Oxygen, Dissolved	**4.5**	mg/L		1		05/07/15 12:50	7782-44-7	
REDOX	**11.0**	mV		1		05/07/15 12:50		
Turbidity	**26.5**	NTU	1.0	1		05/07/15 12:50		
Odor	**NONE**			1		05/07/15 12:50		
Appearance	**MURKY**			1		05/07/15 12:50		
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:37	7440-38-2	
Barium	**72.2**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-39-3	
Beryllium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:37	7440-41-7	
Cadmium	ND	ug/L	1.0	1	05/14/15 12:35	05/15/15 19:37	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-47-3	
Cobalt	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-48-4	
Copper	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-50-8	
Iron	**8870**	ug/L	50.0	1	05/14/15 12:35	05/15/15 19:37	7439-89-6	
Lead	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7439-92-1	
Manganese	**1160**	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7439-96-5	
Nickel	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:37	7782-49-2	
Silver	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-22-4	
Sodium	**16000**	ug/L	5000	1	05/14/15 12:35	05/15/15 19:37	7440-23-5	
Thallium	ND	ug/L	5.4	1	05/14/15 12:35	05/15/15 19:37	7440-28-0	
Tin	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-31-5	
Vanadium	ND	ug/L	5.0	1	05/14/15 12:35	05/15/15 19:37	7440-62-2	
Zinc	ND	ug/L	10.0	1	05/14/15 12:35	05/15/15 19:37	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/09/15 17:30	05/14/15 14:11	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/15/15 08:42	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/15/15 08:42	107-13-1	
Benzene	ND	ug/L	1.0	1		05/15/15 08:42	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/15/15 08:42	74-97-5	M1
Bromodichloromethane	ND	ug/L	1.0	1		05/15/15 08:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/15 08:42	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/15/15 08:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/15/15 08:42	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/15/15 08:42	75-15-0	M1
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/15 08:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/15 08:42	108-90-7	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW1 **Lab ID: 92248411019** Collected: 05/07/15 12:50 Received: 05/07/15 15:14 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		05/15/15 08:42	75-00-3	M1
Chloroform	ND	ug/L	1.0	1		05/15/15 08:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/15 08:42	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/15/15 08:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/15 08:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/15/15 08:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/15/15 08:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 08:42	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/15 08:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/15/15 08:42	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/15 08:42	75-34-3	M1
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/15 08:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/15 08:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 08:42	156-59-2	M1
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/15 08:42	156-60-5	M1
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/15 08:42	78-87-5	M1
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 08:42	10061-01-5	M1
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/15 08:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/15 08:42	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/15/15 08:42	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/15/15 08:42	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		05/15/15 08:42	75-09-2	M1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/15/15 08:42	108-10-1	
Styrene	ND	ug/L	1.0	1		05/15/15 08:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 08:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/15 08:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/15 08:42	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/15/15 08:42	109-99-9	
Toluene	ND	ug/L	1.0	1		05/15/15 08:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/15 08:42	71-55-6	M1
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/15 08:42	79-00-5	M1
Trichloroethene	ND	ug/L	1.0	1		05/15/15 08:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/15 08:42	75-69-4	M1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/15/15 08:42	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/15/15 08:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/15 08:42	75-01-4	M1
m&p-Xylene	ND	ug/L	2.0	1		05/15/15 08:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/15/15 08:42	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		05/15/15 08:42	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/15/15 08:42	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		05/15/15 08:42	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**44500**	ug/L	5000	1		05/14/15 16:28		

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-SW1 **Lab ID: 92248411019** Collected: 05/07/15 12:50 Received: 05/07/15 15:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**140000**	ug/L	25000	1		05/11/15 13:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	ug/L	100	1		05/11/15 16:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**3690**	ug/L	2000	1		05/09/15 03:52	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**31500**	ug/L	1000	1		05/09/15 02:43	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	ug/L	8.0	1		05/19/15 10:29	57-12-5	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-TRIP BLANK **Lab ID: 92248411020** Collected: 05/05/15 08:00 Received: 05/07/15 15:14 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		05/19/15 04:22	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		05/19/15 04:22	107-13-1	
Benzene	ND	ug/L	1.0	1		05/19/15 04:22	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		05/19/15 04:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/19/15 04:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/19/15 04:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/19/15 04:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/19/15 04:22	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		05/19/15 04:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/19/15 04:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/19/15 04:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/19/15 04:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/19/15 04:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/19/15 04:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/19/15 04:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/19/15 04:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/19/15 04:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/19/15 04:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/19/15 04:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/19/15 04:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		05/19/15 04:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/19/15 04:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/19/15 04:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/19/15 04:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/19/15 04:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/19/15 04:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/19/15 04:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/19/15 04:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/19/15 04:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/19/15 04:22	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		05/19/15 04:22	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/19/15 04:22	74-88-4	
Methylene Chloride	**1.5**	ug/L	1.0	1		05/19/15 04:22	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/19/15 04:22	108-10-1	
Styrene	ND	ug/L	1.0	1		05/19/15 04:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/19/15 04:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/19/15 04:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/19/15 04:22	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/19/15 04:22	109-99-9	
Toluene	ND	ug/L	1.0	1		05/19/15 04:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/19/15 04:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/19/15 04:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/19/15 04:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/19/15 04:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/19/15 04:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/19/15 04:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/19/15 04:22	75-01-4	

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ANALYTICAL RESULTS

Project: OSR
Pace Project No.: 92248411

Sample: 3412-TRIP BLANK **Lab ID: 92248411020** Collected: 05/05/15 08:00 Received: 05/07/15 15:14 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		05/19/15 04:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/19/15 04:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		05/19/15 04:22	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		05/19/15 04:22	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/19/15 04:22	2037-26-5	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MERP/7801 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92248411002, 92248411003, 92248411004

METHOD BLANK: 1452593 Matrix: Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/07/15 15:36	

LABORATORY CONTROL SAMPLE: 1452594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.7	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1452595 1452596

Parameter	Units	92247805016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	4.8	2.5	2.5	7.8	7.8	122	122	75-125	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MERP/7809 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 92248411005, 92248411006

METHOD BLANK: 1455107 | Matrix: Water
Associated Lab Samples: 92248411005, 92248411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/11/15 14:23	

LABORATORY CONTROL SAMPLE: 1455108

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455109 1455110

Parameter	Units	92246947003 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	2.7	2.7	106	108	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455111 1455112

Parameter	Units	92248625006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	0.32	2.5	2.5	2.6	2.4	89	84	75-125	5	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MERP/7810 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

METHOD BLANK: 1455113 Matrix: Water
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/14/15 13:08	

LABORATORY CONTROL SAMPLE: 1455114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.8	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455115 1455116

Parameter	Units	92248844003 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	2.6	2.7	101	106	75-125	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MPRP/18430 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

METHOD BLANK: 1453580 Matrix: Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	05/08/15 20:05	
Arsenic	ug/L	ND	10.0	05/08/15 20:05	
Barium	ug/L	ND	5.0	05/08/15 20:05	
Beryllium	ug/L	ND	1.0	05/08/15 20:05	
Cadmium	ug/L	ND	1.0	05/08/15 20:05	
Chromium	ug/L	ND	5.0	05/08/15 20:05	
Cobalt	ug/L	ND	5.0	05/08/15 20:05	
Copper	ug/L	ND	5.0	05/08/15 20:05	
Iron	ug/L	ND	50.0	05/08/15 20:05	
Lead	ug/L	ND	5.0	05/08/15 20:05	
Manganese	ug/L	ND	5.0	05/08/15 20:05	
Nickel	ug/L	ND	5.0	05/08/15 20:05	
Selenium	ug/L	ND	10.0	05/08/15 20:05	
Silver	ug/L	ND	5.0	05/08/15 20:05	
Sodium	ug/L	ND	5000	05/08/15 20:05	
Thallium	ug/L	ND	5.4	05/08/15 20:05	
Tin	ug/L	ND	5.0	05/08/15 20:05	
Vanadium	ug/L	ND	5.0	05/08/15 20:05	
Zinc	ug/L	ND	10.0	05/08/15 20:05	

LABORATORY CONTROL SAMPLE: 1453581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	491	98	80-120	
Arsenic	ug/L	500	479	96	80-120	
Barium	ug/L	500	480	96	80-120	
Beryllium	ug/L	500	487	97	80-120	
Cadmium	ug/L	500	487	97	80-120	
Chromium	ug/L	500	487	97	80-120	
Cobalt	ug/L	500	487	97	80-120	
Copper	ug/L	500	492	98	80-120	
Iron	ug/L	5000	4870	97	80-120	
Lead	ug/L	500	486	97	80-120	
Manganese	ug/L	500	478	96	80-120	
Nickel	ug/L	500	479	96	80-120	
Selenium	ug/L	500	477	95	80-120	
Silver	ug/L	250	244	97	80-120	
Sodium	ug/L	5000	4820J	96	80-120	
Thallium	ug/L	500	477	95	80-120	
Tin	ug/L	500	493	99	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

LABORATORY CONTROL SAMPLE: 1453581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	ug/L	500	485	97	80-120	
Zinc	ug/L	500	477	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1453582 1453583

Parameter	Units	92248625006 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	500	507	100	101	75-125	1	
Arsenic	ug/L	ND	500	500	490	488	98	98	75-125	0	
Barium	ug/L	114	500	500	598	593	97	96	75-125	1	
Beryllium	ug/L	0.60J	500	500	492	486	98	97	75-125	1	
Cadmium	ug/L	ND	500	500	488	491	98	98	75-125	1	
Chromium	ug/L	ND	500	500	488	481	97	96	75-125	1	
Cobalt	ug/L	ND	500	500	481	482	96	96	75-125	0	
Copper	ug/L	ND	500	500	498	501	99	100	75-125	1	
Iron	ug/L	272	5000	5000	5100	5050	97	96	75-125	1	
Lead	ug/L	ND	500	500	478	473	95	94	75-125	1	
Manganese	ug/L	180	500	500	658	653	96	95	75-125	1	
Nickel	ug/L	ND	500	500	473	471	94	94	75-125	0	
Selenium	ug/L	ND	500	500	483	488	97	98	75-125	1	
Silver	ug/L	ND	250	250	243	243	97	97	75-125	0	
Sodium	ug/L	7460	5000	5000	12400	12300	99	96	75-125	1	
Thallium	ug/L	ND	500	500	477	483	95	96	75-125	1	
Tin	ug/L	ND	500	500	493	493	98	98	75-125	0	
Vanadium	ug/L	ND	500	500	486	483	97	96	75-125	1	
Zinc	ug/L	6.9J	500	500	473	464	93	91	75-125	2	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MPRP/18473 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018

METHOD BLANK: 1458781 | Matrix: Water
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	05/15/15 17:54	
Arsenic	ug/L	ND	10.0	05/15/15 17:54	
Barium	ug/L	ND	5.0	05/15/15 17:54	
Beryllium	ug/L	ND	1.0	05/15/15 17:54	
Cadmium	ug/L	ND	1.0	05/15/15 17:54	
Chromium	ug/L	ND	5.0	05/15/15 17:54	
Cobalt	ug/L	ND	5.0	05/15/15 17:54	
Copper	ug/L	ND	5.0	05/15/15 17:54	
Iron	ug/L	ND	50.0	05/15/15 17:54	
Lead	ug/L	ND	5.0	05/15/15 17:54	
Manganese	ug/L	ND	5.0	05/15/15 17:54	
Nickel	ug/L	ND	5.0	05/15/15 17:54	
Selenium	ug/L	ND	10.0	05/15/15 17:54	
Silver	ug/L	ND	5.0	05/15/15 17:54	
Sodium	ug/L	ND	5000	05/15/15 17:54	
Thallium	ug/L	ND	5.4	05/15/15 17:54	
Tin	ug/L	ND	5.0	05/15/15 17:54	
Vanadium	ug/L	ND	5.0	05/15/15 17:54	
Zinc	ug/L	ND	10.0	05/15/15 17:54	

LABORATORY CONTROL SAMPLE: 1458782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	465	93	80-120	
Arsenic	ug/L	500	445	89	80-120	
Barium	ug/L	500	462	92	80-120	
Beryllium	ug/L	500	462	92	80-120	
Cadmium	ug/L	500	475	95	80-120	
Chromium	ug/L	500	476	95	80-120	
Cobalt	ug/L	500	464	93	80-120	
Copper	ug/L	500	488	98	80-120	
Iron	ug/L	5000	4480	90	80-120	
Lead	ug/L	500	462	92	80-120	
Manganese	ug/L	500	463	93	80-120	
Nickel	ug/L	500	464	93	80-120	
Selenium	ug/L	500	463	93	80-120	
Silver	ug/L	250	235	94	80-120	
Sodium	ug/L	5000	4570J	91	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

LABORATORY CONTROL SAMPLE: 1458782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	500	478	96	80-120	
Tin	ug/L	500	454	91	80-120	
Vanadium	ug/L	500	474	95	80-120	
Zinc	ug/L	500	441	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1458783 1458784

Parameter	Units	92248411007 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	498	470	99	93	75-125	6	
Arsenic	ug/L	ND	500	500	480	454	96	91	75-125	5	
Barium	ug/L	287	500	500	774	747	97	92	75-125	4	
Beryllium	ug/L	ND	500	500	494	463	99	93	75-125	6	
Cadmium	ug/L	ND	500	500	505	474	101	95	75-125	6	
Chromium	ug/L	ND	500	500	504	471	100	94	75-125	7	
Cobalt	ug/L	20.3	500	500	494	465	95	89	75-125	6	
Copper	ug/L	6.3	500	500	537	500	106	99	75-125	7	
Iron	ug/L	9560	5000	5000	14200	14000	92	89	75-125	1	
Lead	ug/L	3.3J	500	500	470	440	93	87	75-125	6	
Manganese	ug/L	11900	500	500	12200	12200	50	64	75-125	1	M6
Nickel	ug/L	17.0	500	500	488	459	94	88	75-125	6	
Selenium	ug/L	ND	500	500	488	461	98	92	75-125	6	
Silver	ug/L	ND	250	250	253	235	101	94	75-125	7	
Sodium	ug/L	51400	5000	5000	56400	56700	101	106	75-125	0	
Thallium	ug/L	5.1J	500	500	485	460	96	91	75-125	5	
Tin	ug/L	ND	500	500	470	442	94	88	75-125	6	
Vanadium	ug/L	11.4	500	500	516	484	101	94	75-125	6	
Zinc	ug/L	8.7J	500	500	450	423	88	83	75-125	6	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MPRP/18474
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92248411019

METHOD BLANK: 1458785
Matrix: Water
Associated Lab Samples: 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	05/15/15 19:31	
Arsenic	ug/L	ND	10.0	05/15/15 19:31	
Barium	ug/L	ND	5.0	05/15/15 19:31	
Beryllium	ug/L	ND	1.0	05/15/15 19:31	
Cadmium	ug/L	ND	1.0	05/15/15 19:31	
Chromium	ug/L	ND	5.0	05/15/15 19:31	
Cobalt	ug/L	ND	5.0	05/15/15 19:31	
Copper	ug/L	ND	5.0	05/15/15 19:31	
Iron	ug/L	ND	50.0	05/15/15 19:31	
Lead	ug/L	ND	5.0	05/15/15 19:31	
Manganese	ug/L	ND	5.0	05/15/15 19:31	
Nickel	ug/L	ND	5.0	05/15/15 19:31	
Selenium	ug/L	ND	10.0	05/15/15 19:31	
Silver	ug/L	ND	5.0	05/15/15 19:31	
Sodium	ug/L	ND	5000	05/15/15 19:31	
Thallium	ug/L	ND	5.4	05/15/15 19:31	
Tin	ug/L	ND	5.0	05/15/15 19:31	
Vanadium	ug/L	ND	5.0	05/15/15 19:31	
Zinc	ug/L	ND	10.0	05/15/15 19:31	

LABORATORY CONTROL SAMPLE: 1458786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	457	91	80-120	
Arsenic	ug/L	500	432	86	80-120	
Barium	ug/L	500	459	92	80-120	
Beryllium	ug/L	500	461	92	80-120	
Cadmium	ug/L	500	471	94	80-120	
Chromium	ug/L	500	481	96	80-120	
Cobalt	ug/L	500	458	92	80-120	
Copper	ug/L	500	489	98	80-120	
Iron	ug/L	5000	4460	89	80-120	
Lead	ug/L	500	457	91	80-120	
Manganese	ug/L	500	463	93	80-120	
Nickel	ug/L	500	461	92	80-120	
Selenium	ug/L	500	450	90	80-120	
Silver	ug/L	250	236	94	80-120	
Sodium	ug/L	5000	4550J	91	80-120	
Thallium	ug/L	500	477	95	80-120	
Tin	ug/L	500	448	90	80-120	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

LABORATORY CONTROL SAMPLE: 1458786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	ug/L	500	472	94	80-120	
Zinc	ug/L	500	432	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1458787 1458788

Parameter	Units	92248411019 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	450	506	90	101	75-125	12	
Arsenic	ug/L	ND	500	500	433	485	87	97	75-125	11	
Barium	ug/L	72.2	500	500	519	578	89	101	75-125	11	
Beryllium	ug/L	ND	500	500	454	509	91	102	75-125	12	
Cadmium	ug/L	ND	500	500	463	518	93	104	75-125	11	
Chromium	ug/L	ND	500	500	470	526	94	105	75-125	11	
Cobalt	ug/L	ND	500	500	449	504	90	101	75-125	11	
Copper	ug/L	ND	500	500	480	539	96	108	75-125	11	
Iron	ug/L	8870	5000	5000	13000	13800	82	98	75-125	6	
Lead	ug/L	ND	500	500	446	498	89	99	75-125	11	
Manganese	ug/L	1160	500	500	1590	1680	85	103	75-125	6	
Nickel	ug/L	ND	500	500	449	504	90	101	75-125	11	
Selenium	ug/L	ND	500	500	444	500	89	100	75-125	12	
Silver	ug/L	ND	250	250	232	260	93	104	75-125	12	
Sodium	ug/L	16000	5000	5000	20000	21200	81	104	75-125	5	
Thallium	ug/L	ND	500	500	464	528	92	105	75-125	13	
Tin	ug/L	ND	500	500	440	495	88	99	75-125	12	
Vanadium	ug/L	ND	500	500	467	526	93	105	75-125	12	
Zinc	ug/L	ND	500	500	423	475	84	94	75-125	11	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MSV/31653 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92248411001, 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

METHOD BLANK: 1459533 Matrix: Water
Associated Lab Samples: 92248411001, 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/14/15 15:51	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/14/15 15:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/14/15 15:51	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/14/15 15:51	
1,1-Dichloroethane	ug/L	ND	1.0	05/14/15 15:51	
1,1-Dichloroethene	ug/L	ND	1.0	05/14/15 15:51	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/14/15 15:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/14/15 15:51	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/14/15 15:51	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/14/15 15:51	
1,2-Dichloroethane	ug/L	ND	1.0	05/14/15 15:51	
1,2-Dichloropropane	ug/L	ND	1.0	05/14/15 15:51	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/14/15 15:51	
2-Butanone (MEK)	ug/L	ND	5.0	05/14/15 15:51	
2-Hexanone	ug/L	ND	5.0	05/14/15 15:51	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/14/15 15:51	
Acetone	ug/L	ND	25.0	05/14/15 15:51	
Acrylonitrile	ug/L	ND	10.0	05/14/15 15:51	
Benzene	ug/L	ND	1.0	05/14/15 15:51	
Bromochloromethane	ug/L	ND	1.0	05/14/15 15:51	
Bromodichloromethane	ug/L	ND	1.0	05/14/15 15:51	
Bromoform	ug/L	ND	1.0	05/14/15 15:51	
Bromomethane	ug/L	ND	2.0	05/14/15 15:51	
Carbon disulfide	ug/L	ND	2.0	05/14/15 15:51	
Carbon tetrachloride	ug/L	ND	1.0	05/14/15 15:51	
Chlorobenzene	ug/L	ND	1.0	05/14/15 15:51	
Chloroethane	ug/L	ND	1.0	05/14/15 15:51	
Chloroform	ug/L	ND	1.0	05/14/15 15:51	
Chloromethane	ug/L	ND	1.0	05/14/15 15:51	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/14/15 15:51	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/14/15 15:51	
Dibromochloromethane	ug/L	ND	1.0	05/14/15 15:51	
Dibromomethane	ug/L	ND	1.0	05/14/15 15:51	
Ethylbenzene	ug/L	ND	1.0	05/14/15 15:51	
Iodomethane	ug/L	ND	5.0	05/14/15 15:51	
m&p-Xylene	ug/L	ND	2.0	05/14/15 15:51	
Methylene Chloride	ug/L	ND	1.0	05/14/15 15:51	
o-Xylene	ug/L	ND	1.0	05/14/15 15:51	
Styrene	ug/L	ND	1.0	05/14/15 15:51	
Tetrachloroethene	ug/L	ND	1.0	05/14/15 15:51	
Tetrahydrofuran	ug/L	ND	10.0	05/14/15 15:51	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

METHOD BLANK: 1459533 Matrix: Water

Associated Lab Samples: 92248411001, 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	05/14/15 15:51	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/14/15 15:51	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/14/15 15:51	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	05/14/15 15:51	
Trichloroethene	ug/L	ND	1.0	05/14/15 15:51	
Trichlorofluoromethane	ug/L	ND	1.0	05/14/15 15:51	
Vinyl acetate	ug/L	ND	2.0	05/14/15 15:51	
Vinyl chloride	ug/L	ND	1.0	05/14/15 15:51	
1,2-Dichloroethane-d4 (S)	%	96	70-130	05/14/15 15:51	
4-Bromofluorobenzene (S)	%	95	70-130	05/14/15 15:51	
Toluene-d8 (S)	%	97	70-130	05/14/15 15:51	

LABORATORY CONTROL SAMPLE: 1459534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	80-125	
1,1,1-Trichloroethane	ug/L	50	49.4	99	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	79-124	
1,1,2-Trichloroethane	ug/L	50	50.0	100	85-125	
1,1-Dichloroethane	ug/L	50	51.5	103	73-126	
1,1-Dichloroethene	ug/L	50	51.3	103	66-135	
1,2,3-Trichloropropane	ug/L	50	48.1	96	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.0	90	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	83-124	
1,2-Dichlorobenzene	ug/L	50	49.4	99	80-133	
1,2-Dichloroethane	ug/L	50	48.8	98	67-128	
1,2-Dichloropropane	ug/L	50	54.6	109	75-132	
1,4-Dichlorobenzene	ug/L	50	50.0	100	78-130	
2-Butanone (MEK)	ug/L	100	84.3	84	61-144	
2-Hexanone	ug/L	100	80.2	80	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	90.9	91	72-135	
Acetone	ug/L	100	80.6	81	48-146	
Acrylonitrile	ug/L	250	209	83	40-160	
Benzene	ug/L	50	52.8	106	80-125	
Bromochloromethane	ug/L	50	53.5	107	71-125	
Bromodichloromethane	ug/L	50	45.4	91	78-124	
Bromoform	ug/L	50	39.9	80	71-128	
Bromomethane	ug/L	50	35.7	71	40-160	
Carbon disulfide	ug/L	50	52.7	105	50-160	
Carbon tetrachloride	ug/L	50	47.2	94	69-131	
Chlorobenzene	ug/L	50	49.9	100	81-122	
Chloroethane	ug/L	50	76.4	153	39-148	L0
Chloroform	ug/L	50	48.0	96	73-127	
Chloromethane	ug/L	50	43.8	88	44-146	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

LABORATORY CONTROL SAMPLE: 1459534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	52.5	105	74-124	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	72-132	
Dibromochloromethane	ug/L	50	44.3	89	78-125	
Dibromomethane	ug/L	50	49.4	99	82-120	
Ethylbenzene	ug/L	50	49.5	99	79-121	
Iodomethane	ug/L	100	95.6	96	39-154	
m&p-Xylene	ug/L	100	97.3	97	81-124	
Methylene Chloride	ug/L	50	46.4	93	64-133	
o-Xylene	ug/L	50	48.3	97	79-131	
Styrene	ug/L	50	48.1	96	84-126	
Tetrachloroethene	ug/L	50	49.2	98	78-122	
Tetrahydrofuran	ug/L	500	431	86	69-148	
Toluene	ug/L	50	51.4	103	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	71-127	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	38.9	78	40-160	
Trichloroethene	ug/L	50	48.6	97	78-122	
Trichlorofluoromethane	ug/L	50	53.5	107	53-137	
Vinyl acetate	ug/L	100	94.7	95	40-160	
Vinyl chloride	ug/L	50	54.0	108	58-137	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			92	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1459536

Parameter	Units	92248411006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.4	102	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.4	102	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.9	115	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.7	114	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	20.8	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	17.8	89	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.8	104	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.5	108	70-130	
1,2-Dichloroethane	ug/L	ND	20	20.6	103	70-130	
1,2-Dichloropropane	ug/L	ND	20	23.5	118	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.7	107	70-130	
2-Butanone (MEK)	ug/L	ND	40	34.6	86	70-130	
2-Hexanone	ug/L	ND	40	37.2	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	39.9	100	70-130	
Acetone	ug/L	ND	40	34.9	87	70-130	
Acrylonitrile	ug/L	ND	100	90.4	90	70-130	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

MATRIX SPIKE SAMPLE: 1459536

Parameter	Units	92248411006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	24.4	122	70-148	
Bromochloromethane	ug/L	ND	20	23.9	120	70-130	
Bromodichloromethane	ug/L	ND	20	19.0	95	70-130	
Bromoform	ug/L	ND	20	15.7	79	70-130	
Bromomethane	ug/L	ND	20	12.8	64	70-130	M1
Carbon disulfide	ug/L	ND	20	22.5	113	70-130	
Carbon tetrachloride	ug/L	ND	20	20.9	104	70-130	
Chlorobenzene	ug/L	ND	20	22.4	112	70-146	
Chloroethane	ug/L	ND	20	35.2	176	70-130	M0
Chloroform	ug/L	0.26J	20	20.6	102	70-130	
Chloromethane	ug/L	ND	20	20.0	100	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.1	111	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	22.7	113	70-130	
Dibromochloromethane	ug/L	ND	20	17.4	87	70-130	
Dibromomethane	ug/L	ND	20	20.2	101	70-130	
Ethylbenzene	ug/L	ND	20	22.7	114	70-130	
Iodomethane	ug/L	ND	40	30.7	77	70-130	
m&p-Xylene	ug/L	ND	40	44.8	112	70-130	
Methylene Chloride	ug/L	ND	20	20.5	100	70-130	
o-Xylene	ug/L	ND	20	21.7	109	70-130	
Styrene	ug/L	ND	20	22.2	111	70-130	
Tetrachloroethene	ug/L	ND	20	21.3	106	70-130	
Tetrahydrofuran	ug/L	16.9	200	204	93	70-130	
Toluene	ug/L	ND	20	23.1	116	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.8	109	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.5	103	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	15.9	79	70-130	
Trichloroethene	ug/L	ND	20	21.9	110	69-151	
Trichlorofluoromethane	ug/L	4.4	20	31.5	135	70-130	M1
Vinyl acetate	ug/L	ND	40	36.1	90	70-130	
Vinyl chloride	ug/L	ND	20	24.6	123	70-130	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				94	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 1459535

Parameter	Units	92248411005 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.: 92248411

SAMPLE DUPLICATE: 1459535

Parameter	Units	92248411005 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)	%	94	94	1	
4-Bromofluorobenzene (S)	%	95	94	2	
Toluene-d8 (S)	%	97	97	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MSV/31654 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

METHOD BLANK: 1459554 | Matrix: Water
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/15/15 02:48	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/15/15 02:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/15/15 02:48	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/15/15 02:48	
1,1-Dichloroethane	ug/L	ND	1.0	05/15/15 02:48	
1,1-Dichloroethene	ug/L	ND	1.0	05/15/15 02:48	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/15/15 02:48	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/15/15 02:48	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/15/15 02:48	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/15/15 02:48	
1,2-Dichloroethane	ug/L	ND	1.0	05/15/15 02:48	
1,2-Dichloropropane	ug/L	ND	1.0	05/15/15 02:48	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/15/15 02:48	
2-Butanone (MEK)	ug/L	ND	5.0	05/15/15 02:48	
2-Hexanone	ug/L	ND	5.0	05/15/15 02:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/15/15 02:48	
Acetone	ug/L	ND	25.0	05/15/15 02:48	
Acrylonitrile	ug/L	ND	10.0	05/15/15 02:48	
Benzene	ug/L	ND	1.0	05/15/15 02:48	
Bromochloromethane	ug/L	ND	1.0	05/15/15 02:48	
Bromodichloromethane	ug/L	ND	1.0	05/15/15 02:48	
Bromoform	ug/L	ND	1.0	05/15/15 02:48	
Bromomethane	ug/L	ND	2.0	05/15/15 02:48	
Carbon disulfide	ug/L	ND	2.0	05/15/15 02:48	
Carbon tetrachloride	ug/L	ND	1.0	05/15/15 02:48	
Chlorobenzene	ug/L	ND	1.0	05/15/15 02:48	
Chloroethane	ug/L	ND	1.0	05/15/15 02:48	
Chloroform	ug/L	ND	1.0	05/15/15 02:48	
Chloromethane	ug/L	ND	1.0	05/15/15 02:48	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/15/15 02:48	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/15/15 02:48	
Dibromochloromethane	ug/L	ND	1.0	05/15/15 02:48	
Dibromomethane	ug/L	ND	1.0	05/15/15 02:48	
Ethylbenzene	ug/L	ND	1.0	05/15/15 02:48	
Iodomethane	ug/L	ND	5.0	05/15/15 02:48	
m&p-Xylene	ug/L	ND	2.0	05/15/15 02:48	
Methylene Chloride	ug/L	ND	1.0	05/15/15 02:48	
o-Xylene	ug/L	ND	1.0	05/15/15 02:48	
Styrene	ug/L	ND	1.0	05/15/15 02:48	
Tetrachloroethene	ug/L	ND	1.0	05/15/15 02:48	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

METHOD BLANK: 1459554 Matrix: Water

Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrahydrofuran	ug/L	ND	10.0	05/15/15 02:48	
Toluene	ug/L	ND	1.0	05/15/15 02:48	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/15/15 02:48	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/15/15 02:48	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	05/15/15 02:48	
Trichloroethene	ug/L	ND	1.0	05/15/15 02:48	
Trichlorofluoromethane	ug/L	ND	1.0	05/15/15 02:48	
Vinyl acetate	ug/L	ND	2.0	05/15/15 02:48	
Vinyl chloride	ug/L	ND	1.0	05/15/15 02:48	
1,2-Dichloroethane-d4 (S)	%	96	70-130	05/15/15 02:48	
4-Bromofluorobenzene (S)	%	95	70-130	05/15/15 02:48	
Toluene-d8 (S)	%	98	70-130	05/15/15 02:48	

LABORATORY CONTROL SAMPLE: 1459555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.0	92	80-125	
1,1,1-Trichloroethane	ug/L	50	46.2	92	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	79-124	
1,1,2-Trichloroethane	ug/L	50	49.2	98	85-125	
1,1-Dichloroethane	ug/L	50	49.2	98	73-126	
1,1-Dichloroethene	ug/L	50	48.3	97	66-135	
1,2,3-Trichloropropane	ug/L	50	48.3	97	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.2	94	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	83-124	
1,2-Dichlorobenzene	ug/L	50	48.6	97	80-133	
1,2-Dichloroethane	ug/L	50	48.4	97	67-128	
1,2-Dichloropropane	ug/L	50	53.1	106	75-132	
1,4-Dichlorobenzene	ug/L	50	48.3	97	78-130	
2-Butanone (MEK)	ug/L	100	84.6	85	61-144	
2-Hexanone	ug/L	100	82.8	83	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.1	91	72-135	
Acetone	ug/L	100	83.7	84	48-146	
Acrylonitrile	ug/L	250	215	86	40-160	
Benzene	ug/L	50	51.1	102	80-125	
Bromochloromethane	ug/L	50	49.8	100	71-125	
Bromodichloromethane	ug/L	50	44.5	89	78-124	
Bromoform	ug/L	50	39.3	79	71-128	
Bromomethane	ug/L	50	39.8	80	40-160	
Carbon disulfide	ug/L	50	49.9	100	50-160	
Carbon tetrachloride	ug/L	50	44.9	90	69-131	
Chlorobenzene	ug/L	50	48.9	98	81-122	
Chloroethane	ug/L	50	58.1	116	39-148	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

LABORATORY CONTROL SAMPLE: 1459555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	50	45.4	91	73-127	
Chloromethane	ug/L	50	43.7	87	44-146	
cis-1,2-Dichloroethene	ug/L	50	50.3	101	74-124	
cis-1,3-Dichloropropene	ug/L	50	50.0	100	72-132	
Dibromochloromethane	ug/L	50	41.8	84	78-125	
Dibromomethane	ug/L	50	48.1	96	82-120	
Ethylbenzene	ug/L	50	48.6	97	79-121	
Iodomethane	ug/L	100	86.0	86	39-154	
m&p-Xylene	ug/L	100	94.7	95	81-124	
Methylene Chloride	ug/L	50	45.2	90	64-133	
o-Xylene	ug/L	50	47.0	94	79-131	
Styrene	ug/L	50	48.1	96	84-126	
Tetrachloroethene	ug/L	50	45.3	91	78-122	
Tetrahydrofuran	ug/L	500	437	87	69-148	
Toluene	ug/L	50	49.4	99	80-121	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	71-127	
trans-1,3-Dichloropropene	ug/L	50	46.9	94	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	37.5	75	40-160	
Trichloroethene	ug/L	50	46.3	93	78-122	
Trichlorofluoromethane	ug/L	50	51.7	103	53-137	
Vinyl acetate	ug/L	100	90.3	90	40-160	
Vinyl chloride	ug/L	50	53.6	107	58-137	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1459557

Parameter	Units	92248411019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	23.9	119	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	26.3	131	70-130	M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	22.7	113	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	26.4	132	70-130	M1
1,1-Dichloroethane	ug/L	ND	20	27.7	139	70-130	M1
1,1-Dichloroethene	ug/L	ND	20	28.8	144	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	23.0	115	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.1	90	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	24.5	122	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.5	113	70-130	
1,2-Dichloroethane	ug/L	ND	20	25.7	129	70-130	
1,2-Dichloropropane	ug/L	ND	20	28.4	142	70-130	M1
1,4-Dichlorobenzene	ug/L	ND	20	23.5	117	70-130	
2-Butanone (MEK)	ug/L	ND	40	39.8	99	70-130	
2-Hexanone	ug/L	ND	40	39.2	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	45.5	114	70-130	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

MATRIX SPIKE SAMPLE: 1459557

Parameter	Units	92248411019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	ND	40	38.6	92	70-130	
Acrylonitrile	ug/L	ND	100	98.7	99	70-130	
Benzene	ug/L	ND	20	28.4	142	70-148	
Bromochloromethane	ug/L	ND	20	30.8	154	70-130	M1
Bromodichloromethane	ug/L	ND	20	23.8	119	70-130	
Bromoform	ug/L	ND	20	18.5	92	70-130	
Bromomethane	ug/L	ND	20	24.2	121	70-130	
Carbon disulfide	ug/L	ND	20	29.0	145	70-130	M1
Carbon tetrachloride	ug/L	ND	20	26.1	130	70-130	
Chlorobenzene	ug/L	ND	20	25.8	129	70-146	
Chloroethane	ug/L	ND	20	61.3	307	70-130	M1
Chloroform	ug/L	ND	20	25.2	126	70-130	
Chloromethane	ug/L	ND	20	24.1	120	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	27.3	136	70-130	M1
cis-1,3-Dichloropropene	ug/L	ND	20	28.1	140	70-130	M1
Dibromochloromethane	ug/L	ND	20	20.7	104	70-130	
Dibromomethane	ug/L	ND	20	25.9	130	70-130	
Ethylbenzene	ug/L	ND	20	25.9	130	70-130	
Iodomethane	ug/L	ND	40	36.0	90	70-130	
m&p-Xylene	ug/L	ND	40	51.8	130	70-130	
Methylene Chloride	ug/L	ND	20	29.0	145	70-130	M1
o-Xylene	ug/L	ND	20	24.6	123	70-130	
Styrene	ug/L	ND	20	25.1	125	70-130	
Tetrachloroethene	ug/L	ND	20	25.3	126	70-130	
Tetrahydrofuran	ug/L	ND	200	214	107	70-130	
Toluene	ug/L	ND	20	27.3	136	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	26.8	134	70-130	M1
trans-1,3-Dichloropropene	ug/L	ND	20	25.6	128	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	16.7	83	70-130	
Trichloroethene	ug/L	ND	20	26.9	135	69-151	
Trichlorofluoromethane	ug/L	ND	20	33.8	169	70-130	M1
Vinyl acetate	ug/L	ND	40	49.1	123	70-130	
Vinyl chloride	ug/L	ND	20	31.9	159	70-130	M1
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1459556

Parameter	Units	92248411018 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		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

SAMPLE DUPLICATE: 1459556

Parameter	Units	92248411018 Result	Dup Result	RPD	Qualifiers
1,1-Dichloroethene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
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	3.1J	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	4.1J	4.3J		
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)	%	93	94	2	
4-Bromofluorobenzene (S)	%	94	97	3	
Toluene-d8 (S)	%	97	98	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: MSV/31715
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92248411020

METHOD BLANK: 1461953
Matrix: Water
Associated Lab Samples: 92248411020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/19/15 00:25	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/19/15 00:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/19/15 00:25	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/19/15 00:25	
1,1-Dichloroethane	ug/L	ND	1.0	05/19/15 00:25	
1,1-Dichloroethene	ug/L	ND	1.0	05/19/15 00:25	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/19/15 00:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/19/15 00:25	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/19/15 00:25	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/19/15 00:25	
1,2-Dichloroethane	ug/L	ND	1.0	05/19/15 00:25	
1,2-Dichloropropane	ug/L	ND	1.0	05/19/15 00:25	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/19/15 00:25	
2-Butanone (MEK)	ug/L	ND	5.0	05/19/15 00:25	
2-Hexanone	ug/L	ND	5.0	05/19/15 00:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/19/15 00:25	
Acetone	ug/L	ND	25.0	05/19/15 00:25	
Acrylonitrile	ug/L	ND	10.0	05/19/15 00:25	
Benzene	ug/L	ND	1.0	05/19/15 00:25	
Bromochloromethane	ug/L	ND	1.0	05/19/15 00:25	
Bromodichloromethane	ug/L	ND	1.0	05/19/15 00:25	
Bromoform	ug/L	ND	1.0	05/19/15 00:25	
Bromomethane	ug/L	ND	2.0	05/19/15 00:25	
Carbon disulfide	ug/L	ND	2.0	05/19/15 00:25	
Carbon tetrachloride	ug/L	ND	1.0	05/19/15 00:25	
Chlorobenzene	ug/L	ND	1.0	05/19/15 00:25	
Chloroethane	ug/L	ND	1.0	05/19/15 00:25	
Chloroform	ug/L	ND	1.0	05/19/15 00:25	
Chloromethane	ug/L	ND	1.0	05/19/15 00:25	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/19/15 00:25	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/19/15 00:25	
Dibromochloromethane	ug/L	ND	1.0	05/19/15 00:25	
Dibromomethane	ug/L	ND	1.0	05/19/15 00:25	
Ethylbenzene	ug/L	ND	1.0	05/19/15 00:25	
Iodomethane	ug/L	ND	5.0	05/19/15 00:25	
m&p-Xylene	ug/L	ND	2.0	05/19/15 00:25	
Methylene Chloride	ug/L	4.7	1.0	05/19/15 00:25	C9
o-Xylene	ug/L	ND	1.0	05/19/15 00:25	
Styrene	ug/L	ND	1.0	05/19/15 00:25	
Tetrachloroethene	ug/L	ND	1.0	05/19/15 00:25	
Tetrahydrofuran	ug/L	ND	10.0	05/19/15 00:25	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

METHOD BLANK: 1461953 Matrix: Water
Associated Lab Samples: 92248411020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	05/19/15 00:25	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/19/15 00:25	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/19/15 00:25	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	05/19/15 00:25	
Trichloroethene	ug/L	ND	1.0	05/19/15 00:25	
Trichlorofluoromethane	ug/L	ND	1.0	05/19/15 00:25	
Vinyl acetate	ug/L	ND	2.0	05/19/15 00:25	
Vinyl chloride	ug/L	ND	1.0	05/19/15 00:25	
1,2-Dichloroethane-d4 (S)	%	96	70-130	05/19/15 00:25	
4-Bromofluorobenzene (S)	%	88	70-130	05/19/15 00:25	
Toluene-d8 (S)	%	99	70-130	05/19/15 00:25	

LABORATORY CONTROL SAMPLE: 1461954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.6	103	80-125	
1,1,1-Trichloroethane	ug/L	50	48.4	97	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	79-124	
1,1,2-Trichloroethane	ug/L	50	53.3	107	85-125	
1,1-Dichloroethane	ug/L	50	49.8	100	73-126	
1,1-Dichloroethene	ug/L	50	49.3	99	66-135	
1,2,3-Trichloropropane	ug/L	50	52.5	105	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.8	104	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	83-124	
1,2-Dichlorobenzene	ug/L	50	52.2	104	80-133	
1,2-Dichloroethane	ug/L	50	50.6	101	67-128	
1,2-Dichloropropane	ug/L	50	53.3	107	75-132	
1,4-Dichlorobenzene	ug/L	50	50.8	102	78-130	
2-Butanone (MEK)	ug/L	100	98.5	98	61-144	
2-Hexanone	ug/L	100	106	106	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	72-135	
Acetone	ug/L	100	96.1	96	48-146	
Acrylonitrile	ug/L	250	254	102	40-160	
Benzene	ug/L	50	51.8	104	80-125	
Bromochloromethane	ug/L	50	49.6	99	71-125	
Bromodichloromethane	ug/L	50	47.4	95	78-124	
Bromoform	ug/L	50	48.8	98	71-128	
Bromomethane	ug/L	50	46.0	92	40-160	
Carbon disulfide	ug/L	50	51.6	103	50-160	
Carbon tetrachloride	ug/L	50	50.5	101	69-131	
Chlorobenzene	ug/L	50	51.7	103	81-122	
Chloroethane	ug/L	50	40.8	82	39-148	
Chloroform	ug/L	50	46.2	92	73-127	
Chloromethane	ug/L	50	46.8	94	44-146	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

LABORATORY CONTROL SAMPLE: 1461954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	51.2	102	74-124	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	72-132	
Dibromochloromethane	ug/L	50	50.2	100	78-125	
Dibromomethane	ug/L	50	52.6	105	82-120	
Ethylbenzene	ug/L	50	50.2	100	79-121	
Iodomethane	ug/L	100	116	116	39-154	
m&p-Xylene	ug/L	100	98.7	99	81-124	
Methylene Chloride	ug/L	50	49.6	99	64-133	
o-Xylene	ug/L	50	49.2	98	79-131	
Styrene	ug/L	50	51.2	102	84-126	
Tetrachloroethene	ug/L	50	50.9	102	78-122	
Tetrahydrofuran	ug/L	500	522	104	69-148	
Toluene	ug/L	50	51.5	103	80-121	
trans-1,2-Dichloroethene	ug/L	50	48.1	96	71-127	
trans-1,3-Dichloropropene	ug/L	50	52.6	105	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	54.2	108	40-160	
Trichloroethene	ug/L	50	50.9	102	78-122	
Trichlorofluoromethane	ug/L	50	44.1	88	53-137	
Vinyl acetate	ug/L	100	100	100	40-160	
Vinyl chloride	ug/L	50	47.8	96	58-137	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: OEXT/34962 | Analysis Method: EPA 8081
QC Batch Method: EPA 3510 | Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92248411001, 92248411006

METHOD BLANK: 1455294 | Matrix: Water
Associated Lab Samples: 92248411001, 92248411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	05/15/15 07:05	
4,4'-DDT	ug/L	ND	0.050	05/15/15 07:05	
Aldrin	ug/L	ND	0.050	05/15/15 07:05	
alpha-BHC	ug/L	ND	0.050	05/15/15 07:05	
delta-BHC	ug/L	ND	0.050	05/15/15 07:05	
Endosulfan II	ug/L	ND	0.050	05/15/15 07:05	
Endrin	ug/L	ND	0.050	05/15/15 07:05	
Endrin aldehyde	ug/L	ND	0.050	05/15/15 07:05	
Heptachlor	ug/L	ND	0.050	05/15/15 07:05	
Methoxychlor	ug/L	ND	0.15	05/15/15 07:05	
Decachlorobiphenyl (S)	%	60	20-130	05/15/15 07:05	
Tetrachloro-m-xylene (S)	%	75	20-130	05/15/15 07:05	

LABORATORY CONTROL SAMPLE: 1455295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.23	93	20-150	
4,4'-DDT	ug/L	.25	0.23	93	20-150	
Aldrin	ug/L	.25	0.13	53	20-150	
alpha-BHC	ug/L	.25	0.24	95	20-150	
delta-BHC	ug/L	.25	0.27	108	20-150	
Endosulfan II	ug/L	.25	0.23	93	20-150	
Endrin	ug/L	.25	0.23	93	20-150	
Endrin aldehyde	ug/L	.25	0.21	86	20-150	
Heptachlor	ug/L	.25	0.15	62	20-150	
Methoxychlor	ug/L	.74	0.73	98	20-150	
Decachlorobiphenyl (S)	%			65	20-130	
Tetrachloro-m-xylene (S)	%			87	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455296 1455297

Parameter	Units	92248530009 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	0.48	0.52	96	105	20-150	9	
4,4'-DDT	ug/L	ND	.5	.5	0.51	0.54	104	110	20-150	6	
Aldrin	ug/L	ND	.5	.5	0.41	0.43	82	86	20-150	5	
alpha-BHC	ug/L	ND	.5	.5	0.48	0.48	96	97	20-150	1	
delta-BHC	ug/L	ND	.5	.5	0.54	0.54	109	110	20-150	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455296 1455297

Parameter	Units	92248530009 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	0.45	0.52	91	105	20-150	14	
Endrin	ug/L	ND	.5	.5	0.43	0.49	87	100	20-150	14	
Endrin aldehyde	ug/L	ND	.5	.5	0.49	0.52	99	106	20-150	6	
Heptachlor	ug/L	ND	.5	.5	0.41	0.44	82	89	20-150	7	
Methoxychlor	ug/L	ND	1.5	1.5	1.5	1.6	100	107	20-150	7	
Decachlorobiphenyl (S)	%						93	97	20-130		
Tetrachloro-m-xylene (S)	%						86	87	20-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: OEXT/35038 Analysis Method: EPA 8081
QC Batch Method: EPA 3510 Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92248411007, 92248411008, 92248411014

METHOD BLANK: 1457736 Matrix: Water
Associated Lab Samples: 92248411007, 92248411008, 92248411014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	05/16/15 05:55	
4,4'-DDT	ug/L	ND	0.050	05/16/15 05:55	
Aldrin	ug/L	ND	0.050	05/16/15 05:55	
alpha-BHC	ug/L	ND	0.050	05/16/15 05:55	
delta-BHC	ug/L	ND	0.050	05/16/15 05:55	
Endosulfan II	ug/L	ND	0.050	05/16/15 05:55	
Endrin	ug/L	ND	0.050	05/16/15 05:55	
Endrin aldehyde	ug/L	ND	0.050	05/16/15 05:55	
Heptachlor	ug/L	ND	0.050	05/16/15 05:55	
Methoxychlor	ug/L	ND	0.15	05/16/15 05:55	
Decachlorobiphenyl (S)	%	45	20-130	05/16/15 05:55	
Tetrachloro-m-xylene (S)	%	97	20-130	05/16/15 05:55	

LABORATORY CONTROL SAMPLE: 1457737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.26	105	20-150	
4,4'-DDT	ug/L	.25	0.26	107	20-150	
Aldrin	ug/L	.25	0.20	81	20-150	
alpha-BHC	ug/L	.25	0.26	104	20-150	
delta-BHC	ug/L	.25	0.29	117	20-150	
Endosulfan II	ug/L	.25	0.26	106	20-150	
Endrin	ug/L	.25	0.26	107	20-150	
Endrin aldehyde	ug/L	.25	0.23	92	20-150	
Heptachlor	ug/L	.25	0.24	96	20-150	
Methoxychlor	ug/L	.74	0.79	106	20-150	
Decachlorobiphenyl (S)	%			75	20-130	
Tetrachloro-m-xylene (S)	%			103	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457738 1457739

Parameter	Units	92248411014 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	0.51	0.52	103	105	20-150	2	
4,4'-DDT	ug/L	ND	.5	.5	0.49	0.51	100	104	20-150	4	
Aldrin	ug/L	ND	.5	.5	0.43	0.46	87	93	20-150	7	
alpha-BHC	ug/L	ND	.5	.5	0.47	0.50	95	100	20-150	6	
delta-BHC	ug/L	ND	.5	.5	0.52	0.58	105	118	20-150	12	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457738 1457739

Parameter	Units	92248411014 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	0.48	0.49	97	99	20-150	2	
Endrin	ug/L	ND	.5	.5	0.53	0.53	106	108	20-150	2	
Endrin aldehyde	ug/L	ND	.5	.5	0.42	0.44	86	90	20-150	5	
Heptachlor	ug/L	ND	.5	.5	0.47	0.50	96	101	20-150	5	
Methoxychlor	ug/L	ND	1.5	1.5	1.5	1.6	102	106	20-150	3	
Decachlorobiphenyl (S)	%						77	78	20-130		
Tetrachloro-m-xylene (S)	%						93	96	20-130		

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: OEXT/22338 Analysis Method: EPA 8151
QC Batch Method: EPA 8151 Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92248411001, 92248411006, 92248411007, 92248411008

METHOD BLANK: 1210649 Matrix: Water
Associated Lab Samples: 92248411001, 92248411006, 92248411007, 92248411008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-T	ug/L	ND	0.19	05/14/15 04:06	
2,4,5-TP (Silvex)	ug/L	ND	0.19	05/14/15 04:06	
2,4-D	ug/L	ND	0.94	05/14/15 04:06	
Dinoseb	ug/L	ND	0.19	05/14/15 04:06	
2,4-DCAA (S)	%	52	36-130	05/14/15 04:06	

LABORATORY CONTROL SAMPLE & LCSD: 1210652 1211289

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4,5-T	ug/L	1.2	0.99	1.1	82	89	40-130	8	40	
2,4,5-TP (Silvex)	ug/L	1.2	1.1	1.2	88	101	58-130	14	40	
2,4-D	ug/L	6	4.7	4.9	78	82	42-134	5	40	
Dinoseb	ug/L	1.2	0.84	0.84	70	70	10-157	0	40	
2,4-DCAA (S)	%				75	83	36-130			

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: OEXT/22351
QC Batch Method: EPA 8151
Analysis Method: EPA 8151
Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 92248411014

METHOD BLANK: 1211860
Matrix: Water
Associated Lab Samples: 92248411014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	ND	0.19	05/14/15 16:44	
2,4-D	ug/L	ND	0.94	05/14/15 16:44	
2,4-DCAA (S)	%	54	36-130	05/14/15 16:44	

LABORATORY CONTROL SAMPLE & LCSD: 1211861 1212142

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4,5-TP (Silvex)	ug/L	1.2	0.99	1.0	83	84	58-130	1	40	
2,4-D	ug/L	6	4.9	4.9	82	81	42-134	1	40	
2,4-DCAA (S)	%				78	78	36-130			

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: OEXT/34933 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92248411001, 92248411006, 92248411007, 92248411008, 92248411014

METHOD BLANK: 1455044 Matrix: Water
Associated Lab Samples: 92248411001, 92248411006, 92248411007, 92248411008, 92248411014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(a)anthracene	ug/L	ND	10.0	05/15/15 09:52	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	05/15/15 09:52	
Chrysene	ug/L	ND	10.0	05/15/15 09:52	
2,4,6-Tribromophenol (S)	%	71	27-110	05/15/15 09:52	
2-Fluorobiphenyl (S)	%	70	27-110	05/15/15 09:52	
2-Fluorophenol (S)	%	37	12-110	05/15/15 09:52	
Nitrobenzene-d5 (S)	%	88	21-110	05/15/15 09:52	
Phenol-d6 (S)	%	25	10-110	05/15/15 09:52	
Terphenyl-d14 (S)	%	111	31-107	05/15/15 09:52	S3

LABORATORY CONTROL SAMPLE: 1455045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	ug/L	50	48.9	98	56-121	
bis(2-Ethylhexyl)phthalate	ug/L	50	48.7	97	50-145	
Chrysene	ug/L	50	48.8	98	58-127	
2,4,6-Tribromophenol (S)	%			95	27-110	
2-Fluorobiphenyl (S)	%			74	27-110	
2-Fluorophenol (S)	%			42	12-110	
Nitrobenzene-d5 (S)	%			81	21-110	
Phenol-d6 (S)	%			31	10-110	
Terphenyl-d14 (S)	%			113	31-107	S0

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WET/37392 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006, 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014

METHOD BLANK: 1456107 | Matrix: Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006, 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	05/12/15 16:24	

LABORATORY CONTROL SAMPLE: 1456108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	47100	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1456109 1456110

Parameter	Units	92248790008 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	664 mg/L	50000	50000	1140000	1140000	960	944	90-110	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1456111 1456112

Parameter	Units	92248377003 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	55.4 mg/L	50000	50000	99600	105000	88	99	90-110	5	M1,R1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WET/37414
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92248411015

METHOD BLANK: 1457163
Matrix: Water
Associated Lab Samples: 92248411015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	05/13/15 15:05	

LABORATORY CONTROL SAMPLE: 1457164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	47700	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457167 1457168

Parameter	Units	92249331017 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	28.0 mg/L	50000	50000	75600	75000	95	94	90-110	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457176 1457177

Parameter	Units	92249331001 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	15.2 mg/L	50000	50000	62200	62900	94	95	90-110	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WET/37448 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92248411016, 92248411017, 92248411018, 92248411019

METHOD BLANK: 1458637 Matrix: Water
Associated Lab Samples: 92248411016, 92248411017, 92248411018, 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	05/14/15 14:48	

LABORATORY CONTROL SAMPLE: 1458638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	45400	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1458673 1458674

Parameter	Units	92249715001 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	26.8 mg/L	50000	50000	71000	72100	88	91	90-110	2	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1458675 1458676

Parameter	Units	92249435003 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	7.9 mg/L	50000	50000	55200	53400	94	91	90-110	3	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WET/37288 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

METHOD BLANK: 1452496 | Matrix: Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	05/06/15 23:23	

LABORATORY CONTROL SAMPLE: 1452497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	246000	98	90-110	

SAMPLE DUPLICATE: 1452498

Parameter	Units	92248211001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	1400 mg/L	1350000	4	

SAMPLE DUPLICATE: 1452499

Parameter	Units	92248534002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	394 mg/L	406000	3	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WET/37374 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013

METHOD BLANK: 1455543 Matrix: Water
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	05/11/15 12:14	

LABORATORY CONTROL SAMPLE: 1455544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	242000	97	90-110	

SAMPLE DUPLICATE: 1455545

Parameter	Units	92248411007 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	632000	625000	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WET/37375 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

METHOD BLANK: 1455554 Matrix: Water
Associated Lab Samples: 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	05/11/15 13:21	

LABORATORY CONTROL SAMPLE: 1455555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	258000	103	90-110	

SAMPLE DUPLICATE: 1455556

Parameter	Units	92248890004 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	ug/L	316 mg/L	311000	2	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WET/37302 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

METHOD BLANK: 1452612 Matrix: Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	100	05/07/15 17:30	

LABORATORY CONTROL SAMPLE: 1452613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	493	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1452616 1452617

Parameter	Units	92248411004 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	548	548	101	101	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1452619 1452620

Parameter	Units	92248625006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	ug/L	165J	500	500	568	568	81	81	90-110	0	M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WET/37370 | Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D | Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

METHOD BLANK: 1455309 | Matrix: Water
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	100	05/11/15 16:30	

LABORATORY CONTROL SAMPLE: 1455310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	460	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455311 | 1455312

Parameter	Units	92248666001 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	484	484	97	97	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1455412 | 1455413

Parameter	Units	92248411014 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	536	536	107	107	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WETA/22855 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006, 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

METHOD BLANK: 1454011 — Matrix: Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006, 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	2000	05/08/15 21:45	

LABORATORY CONTROL SAMPLE: 1454012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19400	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454013 — 1454014

Parameter	Units	92248411002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	1860J	20000	20000	19900	19900	90	90	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454015 — 1454016

Parameter	Units	92248411012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	ug/L	3000	20000	20000	22200	22400	96	97	90-110	1	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WETA/22860 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006, 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018

METHOD BLANK: 1454071 Matrix: Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006, 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013, 92248411014, 92248411015, 92248411016, 92248411017, 92248411018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	05/09/15 02:11	

LABORATORY CONTROL SAMPLE: 1454072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20100	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454073 1454074

Parameter	Units	92248211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	627 mg/L	500000	500000	1070000	1080000	89	91	90-110	1	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454075 1454076

Parameter	Units	92248411009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	51800	20000	20000	72300	71600	103	99	90-110	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WETA/22861
QC Batch Method: SM 4500-Cl-E
Analysis Method: SM 4500-Cl-E
Analysis Description: 4500 Chloride
Associated Lab Samples: 92248411019

METHOD BLANK: 1454378
Matrix: Water
Associated Lab Samples: 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	05/09/15 02:34	

LABORATORY CONTROL SAMPLE: 1454379

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454380 1454381

Parameter	Units	92248802001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	3.3 mg/L	20000	20000	23100	23200	99	99	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454382 1454383

Parameter	Units	92248802022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	ug/L	ND	20000	20000	21800	21900	109	109	90-110	0	

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WETA/22943 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

METHOD BLANK: 1460143 | Matrix: Water
Associated Lab Samples: 92248411002, 92248411003, 92248411004, 92248411005, 92248411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	8.0	05/16/15 15:02	

LABORATORY CONTROL SAMPLE: 1460144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	97.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1460145 1460146

Parameter	Units	92248847002 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	91.1	88.6	87	85	75-125	3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1460147 1460148

Parameter	Units	92248377002 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	63.2	12.5	63	12	75-125	134	M1,R1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WETA/22959 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013

METHOD BLANK: 1461244 | Matrix: Water
Associated Lab Samples: 92248411007, 92248411008, 92248411009, 92248411010, 92248411011, 92248411012, 92248411013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	8.0	05/19/15 09:52	

LABORATORY CONTROL SAMPLE: 1461245

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1461246 | 1461247

Parameter	Units	92248344004 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	101	106	95	99	75-125	4	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1461248 | 1461249

Parameter	Units	92248723001 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	91.2	ND	89	-2	75-125		M1

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QUALITY CONTROL DATA

Project: OSR
Pace Project No.: 92248411

QC Batch: WETA/22964 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

METHOD BLANK: 1461333 | Matrix: Water
Associated Lab Samples: 92248411014, 92248411015, 92248411016, 92248411017, 92248411018, 92248411019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	8.0	05/19/15 10:18	

LABORATORY CONTROL SAMPLE: 1461334

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1461335 | 1461336

Parameter	Units	92248829002 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	96.1	98.5	94	96	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1461337 | 1461338

Parameter	Units	92248344006 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	106	104	103	102	75-125	1	

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QUALIFIERS

Project: OSR
Pace Project No.: 92248411

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
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.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92248411

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92248411002	**3412-MW8**		FLD/		
92248411003	**3412-MW9**		FLD/		
92248411004	**3412-MW14**		FLD/		
92248411005	**3412-MW13**		FLD/		
92248411006	**3412-MW15**		FLD/		
92248411007	**3412-MW2R**		FLD/		
92248411008	**3412-MW4R**		FLD/		
92248411009	**3412-MW10**		FLD/		
92248411010	**3412-MW11**		FLD/		
92248411011	**3412-MW12**		FLD/		
92248411012	**3412-MW3R**		FLD/		
92248411013	**3412-MW7**		FLD/		
92248411014	**3412-MW1R**		FLD/		
92248411015	**3412-MW5R**		FLD/		
92248411016	**3412-SW2**		FLD/		
92248411017	**3412-SW3**		FLD/		
92248411018	**3412-SW4**		FLD/		
92248411019	**3412-SW1**		FLD/		
92248411001	**3412-Equipment Blank**	EPA 3510	OEXT/34962	EPA 8081	GCSV/21309
92248411006	**3412-MW15**	EPA 3510	OEXT/34962	EPA 8081	GCSV/21309
92248411007	**3412-MW2R**	EPA 3510	OEXT/35038	EPA 8081	GCSV/21307
92248411008	**3412-MW4R**	EPA 3510	OEXT/35038	EPA 8081	GCSV/21307
92248411014	**3412-MW1R**	EPA 3510	OEXT/35038	EPA 8081	GCSV/21307
92248411001	**3412-Equipment Blank**	EPA 8151	OEXT/22338	EPA 8151	GCSV/14560
92248411006	**3412-MW15**	EPA 8151	OEXT/22338	EPA 8151	GCSV/14560
92248411007	**3412-MW2R**	EPA 8151	OEXT/22338	EPA 8151	GCSV/14560
92248411008	**3412-MW4R**	EPA 8151	OEXT/22338	EPA 8151	GCSV/14560
92248411014	**3412-MW1R**	EPA 8151	OEXT/22351	EPA 8151	GCSV/14572
92248411002	**3412-MW8**	EPA 3010	MPRP/18430	EPA 6010	ICP/16542
92248411003	**3412-MW9**	EPA 3010	MPRP/18430	EPA 6010	ICP/16542
92248411004	**3412-MW14**	EPA 3010	MPRP/18430	EPA 6010	ICP/16542
92248411005	**3412-MW13**	EPA 3010	MPRP/18430	EPA 6010	ICP/16542
92248411006	**3412-MW15**	EPA 3010	MPRP/18430	EPA 6010	ICP/16542
92248411007	**3412-MW2R**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411008	**3412-MW4R**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411009	**3412-MW10**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411010	**3412-MW11**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411011	**3412-MW12**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411012	**3412-MW3R**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411013	**3412-MW7**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411014	**3412-MW1R**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411015	**3412-MW5R**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411016	**3412-SW2**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411017	**3412-SW3**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578
92248411018	**3412-SW4**	EPA 3010	MPRP/18473	EPA 6010	ICP/16578

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92248411

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92248411019	**3412-SW1**	EPA 3010	MPRP/18474	EPA 6010	ICP/16579
92248411002	**3412-MW8**	EPA 7470	MERP/7801	EPA 7470	MERC/7483
92248411003	**3412-MW9**	EPA 7470	MERP/7801	EPA 7470	MERC/7483
92248411004	**3412-MW14**	EPA 7470	MERP/7801	EPA 7470	MERC/7483
92248411005	**3412-MW13**	EPA 7470	MERP/7809	EPA 7470	MERC/7490
92248411006	**3412-MW15**	EPA 7470	MERP/7809	EPA 7470	MERC/7490
92248411007	**3412-MW2R**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411008	**3412-MW4R**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411009	**3412-MW10**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411010	**3412-MW11**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411011	**3412-MW12**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411012	**3412-MW3R**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411013	**3412-MW7**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411014	**3412-MW1R**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411015	**3412-MW5R**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411016	**3412-SW2**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411017	**3412-SW3**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411018	**3412-SW4**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411019	**3412-SW1**	EPA 7470	MERP/7810	EPA 7470	MERC/7491
92248411001	**3412-Equipment Blank**	EPA 3510	OEXT/34933	EPA 8270	MSSV/10678
92248411006	**3412-MW15**	EPA 3510	OEXT/34933	EPA 8270	MSSV/10678
92248411007	**3412-MW2R**	EPA 3510	OEXT/34933	EPA 8270	MSSV/10678
92248411008	**3412-MW4R**	EPA 3510	OEXT/34933	EPA 8270	MSSV/10678
92248411014	**3412-MW1R**	EPA 3510	OEXT/34933	EPA 8270	MSSV/10678
92248411001	**3412-Equipment Blank**	EPA 8260	MSV/31653		
92248411002	**3412-MW8**	EPA 8260	MSV/31653		
92248411003	**3412-MW9**	EPA 8260	MSV/31653		
92248411004	**3412-MW14**	EPA 8260	MSV/31653		
92248411005	**3412-MW13**	EPA 8260	MSV/31653		
92248411006	**3412-MW15**	EPA 8260	MSV/31653		
92248411007	**3412-MW2R**	EPA 8260	MSV/31654		
92248411008	**3412-MW4R**	EPA 8260	MSV/31654		
92248411009	**3412-MW10**	EPA 8260	MSV/31654		
92248411010	**3412-MW11**	EPA 8260	MSV/31654		
92248411011	**3412-MW12**	EPA 8260	MSV/31654		
92248411012	**3412-MW3R**	EPA 8260	MSV/31654		
92248411013	**3412-MW7**	EPA 8260	MSV/31654		
92248411014	**3412-MW1R**	EPA 8260	MSV/31654		
92248411015	**3412-MW5R**	EPA 8260	MSV/31654		
92248411016	**3412-SW2**	EPA 8260	MSV/31654		
92248411017	**3412-SW3**	EPA 8260	MSV/31654		
92248411018	**3412-SW4**	EPA 8260	MSV/31654		
92248411019	**3412-SW1**	EPA 8260	MSV/31654		
92248411020	**3412-TRIP BLANK**	EPA 8260	MSV/31715		
92248411002	**3412-MW8**	SM 2320B	WET/37392		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92248411

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92248411003	**3412-MW9**	SM 2320B	WET/37392		
92248411004	**3412-MW14**	SM 2320B	WET/37392		
92248411005	**3412-MW13**	SM 2320B	WET/37392		
92248411006	**3412-MW15**	SM 2320B	WET/37392		
92248411007	**3412-MW2R**	SM 2320B	WET/37392		
92248411008	**3412-MW4R**	SM 2320B	WET/37392		
92248411009	**3412-MW10**	SM 2320B	WET/37392		
92248411010	**3412-MW11**	SM 2320B	WET/37392		
92248411011	**3412-MW12**	SM 2320B	WET/37392		
92248411012	**3412-MW3R**	SM 2320B	WET/37392		
92248411013	**3412-MW7**	SM 2320B	WET/37392		
92248411014	**3412-MW1R**	SM 2320B	WET/37392		
92248411015	**3412-MW5R**	SM 2320B	WET/37414		
92248411016	**3412-SW2**	SM 2320B	WET/37448		
92248411017	**3412-SW3**	SM 2320B	WET/37448		
92248411018	**3412-SW4**	SM 2320B	WET/37448		
92248411019	**3412-SW1**	SM 2320B	WET/37448		
92248411002	**3412-MW8**	SM 2540C	WET/37288		
92248411003	**3412-MW9**	SM 2540C	WET/37288		
92248411004	**3412-MW14**	SM 2540C	WET/37288		
92248411005	**3412-MW13**	SM 2540C	WET/37288		
92248411006	**3412-MW15**	SM 2540C	WET/37288		
92248411007	**3412-MW2R**	SM 2540C	WET/37374		
92248411008	**3412-MW4R**	SM 2540C	WET/37374		
92248411009	**3412-MW10**	SM 2540C	WET/37374		
92248411010	**3412-MW11**	SM 2540C	WET/37374		
92248411011	**3412-MW12**	SM 2540C	WET/37374		
92248411012	**3412-MW3R**	SM 2540C	WET/37374		
92248411013	**3412-MW7**	SM 2540C	WET/37374		
92248411014	**3412-MW1R**	SM 2540C	WET/37375		
92248411015	**3412-MW5R**	SM 2540C	WET/37375		
92248411016	**3412-SW2**	SM 2540C	WET/37375		
92248411017	**3412-SW3**	SM 2540C	WET/37375		
92248411018	**3412-SW4**	SM 2540C	WET/37375		
92248411019	**3412-SW1**	SM 2540C	WET/37375		
92248411002	**3412-MW8**	SM 4500-S2D	WET/37302		
92248411003	**3412-MW9**	SM 4500-S2D	WET/37302		
92248411004	**3412-MW14**	SM 4500-S2D	WET/37302		
92248411005	**3412-MW13**	SM 4500-S2D	WET/37302		
92248411006	**3412-MW15**	SM 4500-S2D	WET/37302		
92248411007	**3412-MW2R**	SM 4500-S2D	WET/37370		
92248411008	**3412-MW4R**	SM 4500-S2D	WET/37370		
92248411009	**3412-MW10**	SM 4500-S2D	WET/37370		
92248411010	**3412-MW11**	SM 4500-S2D	WET/37370		
92248411011	**3412-MW12**	SM 4500-S2D	WET/37370		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92248411

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92248411012	**3412-MW3R**	SM 4500-S2D	WET/37370		
92248411013	**3412-MW7**	SM 4500-S2D	WET/37370		
92248411014	**3412-MW1R**	SM 4500-S2D	WET/37370		
92248411015	**3412-MW5R**	SM 4500-S2D	WET/37370		
92248411016	**3412-SW2**	SM 4500-S2D	WET/37370		
92248411017	**3412-SW3**	SM 4500-S2D	WET/37370		
92248411018	**3412-SW4**	SM 4500-S2D	WET/37370		
92248411019	**3412-SW1**	SM 4500-S2D	WET/37370		
92248411002	**3412-MW8**	EPA 300.0	WETA/22855		
92248411003	**3412-MW9**	EPA 300.0	WETA/22855		
92248411004	**3412-MW14**	EPA 300.0	WETA/22855		
92248411005	**3412-MW13**	EPA 300.0	WETA/22855		
92248411006	**3412-MW15**	EPA 300.0	WETA/22855		
92248411007	**3412-MW2R**	EPA 300.0	WETA/22855		
92248411008	**3412-MW4R**	EPA 300.0	WETA/22855		
92248411009	**3412-MW10**	EPA 300.0	WETA/22855		
92248411010	**3412-MW11**	EPA 300.0	WETA/22855		
92248411011	**3412-MW12**	EPA 300.0	WETA/22855		
92248411012	**3412-MW3R**	EPA 300.0	WETA/22855		
92248411013	**3412-MW7**	EPA 300.0	WETA/22855		
92248411014	**3412-MW1R**	EPA 300.0	WETA/22855		
92248411015	**3412-MW5R**	EPA 300.0	WETA/22855		
92248411016	**3412-SW2**	EPA 300.0	WETA/22855		
92248411017	**3412-SW3**	EPA 300.0	WETA/22855		
92248411018	**3412-SW4**	EPA 300.0	WETA/22855		
92248411019	**3412-SW1**	EPA 300.0	WETA/22855		
92248411002	**3412-MW8**	SM 4500-Cl-E	WETA/22860		
92248411003	**3412-MW9**	SM 4500-Cl-E	WETA/22860		
92248411004	**3412-MW14**	SM 4500-Cl-E	WETA/22860		
92248411005	**3412-MW13**	SM 4500-Cl-E	WETA/22860		
92248411006	**3412-MW15**	SM 4500-Cl-E	WETA/22860		
92248411007	**3412-MW2R**	SM 4500-Cl-E	WETA/22860		
92248411008	**3412-MW4R**	SM 4500-Cl-E	WETA/22860		
92248411009	**3412-MW10**	SM 4500-Cl-E	WETA/22860		
92248411010	**3412-MW11**	SM 4500-Cl-E	WETA/22860		
92248411011	**3412-MW12**	SM 4500-Cl-E	WETA/22860		
92248411012	**3412-MW3R**	SM 4500-Cl-E	WETA/22860		
92248411013	**3412-MW7**	SM 4500-Cl-E	WETA/22860		
92248411014	**3412-MW1R**	SM 4500-Cl-E	WETA/22860		
92248411015	**3412-MW5R**	SM 4500-Cl-E	WETA/22860		
92248411016	**3412-SW2**	SM 4500-Cl-E	WETA/22860		
92248411017	**3412-SW3**	SM 4500-Cl-E	WETA/22860		
92248411018	**3412-SW4**	SM 4500-Cl-E	WETA/22860		
92248411019	**3412-SW1**	SM 4500-Cl-E	WETA/22861		
92248411002	**3412-MW8**	SM 4500-CN-E	WETA/22943		
92248411003	**3412-MW9**	SM 4500-CN-E	WETA/22943		
92248411004	**3412-MW14**	SM 4500-CN-E	WETA/22943		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OSR
Pace Project No.: 92248411

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92248411005	**3412-MW13**	SM 4500-CN-E	WETA/22943		
92248411006	**3412-MW15**	SM 4500-CN-E	WETA/22943		
92248411007	**3412-MW2R**	SM 4500-CN-E	WETA/22959		
92248411008	**3412-MW4R**	SM 4500-CN-E	WETA/22959		
92248411009	**3412-MW10**	SM 4500-CN-E	WETA/22959		
92248411010	**3412-MW11**	SM 4500-CN-E	WETA/22959		
92248411011	**3412-MW12**	SM 4500-CN-E	WETA/22959		
92248411012	**3412-MW3R**	SM 4500-CN-E	WETA/22959		
92248411013	**3412-MW7**	SM 4500-CN-E	WETA/22959		
92248411014	**3412-MW1R**	SM 4500-CN-E	WETA/22964		
92248411015	**3412-MW5R**	SM 4500-CN-E	WETA/22964		
92248411016	**3412-SW2**	SM 4500-CN-E	WETA/22964		
92248411017	**3412-SW3**	SM 4500-CN-E	WETA/22964		
92248411018	**3412-SW4**	SM 4500-CN-E	WETA/22964		
92248411019	**3412-SW1**	SM 4500-CN-E	WETA/22964		

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without the written consent of Pace Analytical Services, Inc..

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: September 22, 2014 Page 1 of 2
	Document Number: F-CHR-CS-003-rev.15	Issuing Authority: Pace Huntersville Quality Office

Client Name: HPR

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.: 2.8 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AP 5-6-15

Optional
Proj. Due Date:
Proj. Name:

		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:	☑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: JJ Date: 5/6/15

SRF Review: JJ Date: 5/7/15

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)

WO#: 92248411

92248411

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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

1932224

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: Kevin Godwin
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

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

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn acet/NaOH	Analysis Test (Y/N) Appendix I 8260+THF	6010/7470 + Na, Fe, Mn	8270/8081/8151	Cyanide	Sulfide	TDS/Chloride/Sulfate/Alkalinity	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92248411
1	Equipment Blank	WT	G			5/5/15	1020		9	6			3					✓		✓					001
2	MW-8	WT	G			5/5/15	1230		8	2		1	3	1			1	✓	✓	✗	✓	✓	✓		002
3	MW-9	WT	G			5/5/15	1340		8	2		1	3	1			1	✓	✓		✓	✓	✓		003
4	MW-14	WT	G			5/5/15	1445		8	2		1	3	1			1	✓	✓		✓	✓	✓		004
5	MW-15	WT	G			5/5/15	1630		14	8		1	3	1			1	✓	✓	✓	✓	✓	✓		006
6	MW-13	WT	G			5/5/15	1710		8	2		1	3	1			1	✓	✓		✓	✓	✓		005
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] - Pace	5/5/15	1900	[signature]	5-5-15	1900	28	✓	✓	✓

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Markotski

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/05/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: September 22, 2014 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.: 3.8 °C **Biological Tissue is Frozen:** Yes No (N/A)

Date and Initials of person examining contents: PP 5.6.15

Temp should be above freezing to 6°C

		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:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: H2O		
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: JG **Date:** 5/7/15

SRF Review: JG **Date:** 5/7/15

Place label here

92248411

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

1960001

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Kevin 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

Requested Analysis Filtered (Y/N)

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 Zinc acetate/NaOH	Analysis Test (Y/N): App. 1 8260 + THF	App. 2 6010/7470 + Na, Fe, Mn	App. 2 SVOC/8081/8151	Cyanide	Sulfide	TDS/Chloride/Sulfate/Alkalinity	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9224841
1	MW-2R	WT	G			5/6/15	0920		14	8		1	3	1			1	✓	✓	✓	✓	✓	✓		001
2	MW-10	WT	G			5/6/15	1030		8	2		1	3	1			1	✓	✓		✓	✓	✓		009
3	MW-11	WT	G			5/6/15	1130		8	2		1	3	1			1	✓	✓		✓	✓	✓		010
4	MW-12	WT	G			5/6/15	1230		8	2		1	3	1			1	✓	✓		✓	✓	✓		011
5	MW-3R	WT	G			5/6/15	1325		8	2		1	3	1			1	✓	✓		✓	✓	✓		012
6	MW-7	WT	G			5/6/15	1415		8	2		1	3	1			1	✓	✓		✓	✓	✓		013
7	MW-4R	WT	G			5/6/15	1530		14	8		1	3	1			1	✓	✓	✓	✓	✓	✓		008
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] - Pace	5/6/15	1820	Pam Phillip	5/6	1820	38	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Markowski

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/06/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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.: 4.5 °C Biological Tissue is Frozen: Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JJ 5-7

		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:	☑Yes ☐No ☐N/A	12.
-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:	✓ JJ 5-7 ☐Yes ☑No ☐N/A	16. No TB JJ 5-7
Trip Blank Custody Seals Present	✓ JJ 5-7 ☑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:	5/7/15
SRF Review:	JJ	Date:	5/8/15

92248411

Place label here

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)

Handwrite pro
(if no label av

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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

1960002

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Kevin 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

Requested Analysis Filtered (Y/N)

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 Zinc Acetate/NaOH	Analysis Test (Y/N): App. 1 8260+THF	App. 2 6010/7470+Hg,Se,As	App. 2 SVOC, 8081, 8151	Cyanide	Sulfide	TDS/Chloride/Alkalinity/Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9224844
1	MW-1R	WT	G			5/7/15	0950		14	8		1	3	1			1	✓	✓	✓	✓	✓	✓		014
2	MW-5R	WT	G			5/7/15	1110		8	2		1	3	1			1	✓	✓		✓	✓	✓		015
3	SW-2	WT	G			5/7/15	1140		8	2		1	3	1			1	✓	✓		✓	✓	✓		016
4	SW-3	WT	G			5/7/15	1205		8	2		1	3	1			1	✓	✓		✓	✓	✓		017
5	SW-4	WT	G			5/7/15	1230		8	2		1	3	1			1	✓	✓		✓	✓	✓		018
6	SW-1	WT	G			5/7/15	1250		8	2		1	3	1			1	✓	✓		✓	✓	✓		019
7	Trip Blank	WT				5/5/15	0800		2				2					✓							020
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] - Pace	5/7/15	1545	[signature]	5.7	1545	4.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Markofski

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 05/07/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

C

Appendix C – Field Data

Location Winston-Salem, NC Date 5/5/15

Project / Client OSR LF / HDR

NB #030515

Well ID	H2O Level (ft)		Time (Hrs)
MW-3R	21.11	~~22.68~~ Probe DNO Hitting Pump	10:28
MW-7	37.78		10:37
MW-4R	9.20		10:43
MW-5R	10.94		10:51
MW-1R	35.75		11:00
MW-2R	8.16		11:16
MW-15	39.21		11:21
MW-13	8.98		11:28
MW-12	4.89		11:33
MW-11	4.05		11:37
MW-10	11.70		11:41
MW-14	52.23		11:45
MW-9	53.36		11:50
MW-8	16.85		12:00

Location Winston, Salem NC Date 5/5/15

Project / Client OSR LF / HDR

NB:# 030515

BP= weather Channel 30.33 in H meter BP = 29.4 / in Hg

Temp = 75 °F START Temp END = 75 °F

Well ID	CH_4 %	CO_2 %	O_2 %	BALANCE %	Time
MW-1R	0.0	0.1	20.9	~~78.9~~ 79.0	11:05
MW-1	0.0	3.6	17.4	79.0	11:11
MW-2R	0.0	0.0	20.7	79.3	11:14
MW-15	0.0	0.4	20.4	79.2	11:19
MW-13	0.0	0.5	20.2	79.3	11:26

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-1R

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): JJQ / MSM - 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*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 35.69 ft. Casing Volume: 3.9 gallons
Height of Water Col.: 24.31 ft. Cal. 3 Volumes: 11.7 gallons

Purge Information
Date Purged: 05/07/15 Time Start: 09:25 Finish: 09:43 Purge Rate: 100ml/min
Purging Method: Ded QED Bladder pump Total Volume Purged: 1800mls / 0.5 gallons

Sampling Information
Date Sample Collected: 05/07/15 Time Sample Collected: 09:50 (am) pm
Sampling Equipment Used: Ded. QED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THF
1-250ml	HNO_3	6010 / 7470 Mn, Fe, Na
1-500ml / 1-250mL	NONE	TDS / Chloride, Nitr, Sulfate
6-1-liter amber 1-125ml	NONE NaOH 1-125ml Zn acetate/NaOH	8081 / 8270 / 8151 cyanide sulfide

Field Measurements/Observations
Sample Temp. (°C): 19.0 Time: 09:50
Sample pH (s.u.): 5.5 Time: 09:50
Specific Cond. (uS): 153.1 Time: 09:50
ReDox (mV): 265.1 Time: 09:50
Odor: NONE
Turbidity (ntu): 1.2 Time: 09:50
Dis. Oxy. (mg/L): 4.5 Time: 09:50
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear
General Observations: MW-1R micropurge method Refill 10sec Discharge 5sec

Weather Conditions: 75°F winds 5 to 10 mph clear

Sampler Signature: [signature] Date: 05/07/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals.)~~ mls	Other DO
09:28	5.0	139.2	231.2	1.5	5.3	16.7	300	—
09:31	5.6	139.2	240.4	1.1	5.6	17.1	600	—
09:34	5.5	143.1	253.9	1.2	5.0	17.4	900	—
09:37	5.6	150.1	258.9	1.3	4.6	17.7	1200	—
09:40	5.5	151.2	261.5	1.6	4.7	17.8	1500	—

Client: HDR

Location: Winston-Salem, NC

Project: OSR (05/07/15)

Well ID: MW-1R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
09:43	5.5	151.8	264.8	1.0	4.5	17.9	1800

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-2R

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): MSM / JJQ - 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: 21.0 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 8.16 ft. Casing Volume: 2.1 gallons
Height of Water Col.: 12.84 ft. Cal. 3 Volumes: 6.3 gallons

Purge Information

Date Purged: 05/05/15 Time Start: 15:04 Finish: 15:25 Purge Rate: 100 ml/min
Purging Method: QED sled pump Total Volume Purged: 2100ml / 0.6 gallons

Sampling Information

Date Sample Collected: 05/06/15 Time Sample Collected: 09:20 (am) pm
Sampling Equipment Used: QED sled pump

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 App I + TIC
1-250mp	HNO3	6020/7470 + Fe Na Mn
6-1-liter amber	NONE	8151 / 8081 / 8270
1-500ml / 1-250ml	NONE	TDS chloride Alk sulfate
1-125ml	(NAOH)	cyanide
1-125ml	an acet. NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 13.7 Time: 0920 Turbidity (ntu): 8.8 Time: 0920
Sample pH (s.u.): 6.1 Time: 0920 Dis. Oxy. (mg/L): 1.6 Time: 0920
Specific Cond. (uS): 985 Time: 0920 Res. Cl (mg/L): — Time: —
ReDox (mV): 15.4 Time: 0920 Other: — Time: —
Odor: NONE Appearance: clear
General Observations: MW-2R micropurge method well not holding 1 ft 10 sec Refill
Water level = 8.12 ft @ sample collection 5 to 20 PSI Drawdown will allow recharge 5 sec Dis
Weather Conditions: 80°F WINDS 5 to 10 mph clear

Sampler Signature: [signature] Date: 05/05/15
05 06 15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
15:07	6.1	1040	-18.8	3.1	4.6	15.6	300	—
15:10	6.1	1043	-16.3	2.2	4.2	15.8	600	—
15:13	6.1	1045	-7.0	1.6	4.2	15.8	900	—
15:16	6.1	1044	-10.4	1.4	3.8	15.8	1200	—
15:19	6.1	1059	-11.8	1.4	3.4	15.5	1500	—

Client: HDR

Location: Winston-Salem, NC

Project: OSR (05/05/15) & (05/06/15)

Well ID: MW-2R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
15:22	6.1	1057	-11.5	1.8	3.3	15.5	1800
15:25	6.1	1056	-9.4	1.9	3.3	15.5	2100

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-3R

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s): MSM, JJQ - 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*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 21.07 ft. Casing Volume: 1.0 gallons
Height of Water Col.: 5.93 ft. Cal. 3 Volumes: 3.0 gallons

Purge Information

Date Purged: 05/06/15 Time Start: 13:06 Finish: 13:18 Purge Rate: 400 ml/min
Purging Method: Del QED bladder pump Total Volume Purged: 6000 ml / 1.6 gallons

Sampling Information

Date Sample Collected: 05/06/15 Time Sample Collected: 13:25 am (pm)
Sampling Equipment Used: Del QED bladder pump.

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260
1-250ml	HNO3	6010/7470 Na Fe Mn
1-500ml / 1-250ml	NONE	TDS / chloride alk sulfate
1-125ml	NAOH	cyanide
1-125ml	Zn acetate / NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 15.0 Time: 13:25 Turbidity (ntu): 6.2 Time: 13:25
Sample pH (s.u.): 6.1 Time: 13:25 Dis. Oxy. (mg/L): 2.0 Time: 13:25
Specific Cond. (uS): 363.4 Time: 13:25 Res. Cl (mg/L): — Time: —
ReDox (mV): -1.1 Time: 13:25 Other: — Time: —
Odor: NONE Appearance: Clear
General Observations: MW-3R micropurge method Refill = 10sec Dis = 55sec
Weather Conditions: 85°F WINDS 5 to 10 mph clear

Sampler Signature: J Quattlebaum Date: 05/06/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.) ml/s	Other DTW
13:06	6.1	358.1	-8.9	39.8	2.2	14.7	1200	—
13:09	6.1	358.6	-9.6	26.5	2.0	14.7	2400	—
13:12	6.1	361.0	-9.6	14.7	2.0	14.7	3600	—
13:15	6.1	364.4	-4.4	9.7	2.0	14.8	4800	—
13:18	6.1	363.9	-1.3	6.9	2.0	14.9	6000	—

Pace Analytical

MW-4R

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)): MSM / JJQ — 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*: 0.163 {*(Radius/12)² X 3.14 x 7.48}

Static Water Level: 9.08 ft. Casing Volume: 1.8 gallons

Height of Water Col.: 10.92 ft. Cal. 3 Volumes: 5.4 gallons

Purge Information

Date Purged: 05/06/15 Time Start: 14:41 Finish: 15:21 Purge Rate: 200ml/min

Purging Method: Decl QED Bladder pump Total Volume Purged: 7800mls / 2.1 gallons

Sampling Information

Date Sample Collected: 05/06/15 Time Sample Collected: 1530 am (pm)

Sampling Equipment Used: Decl. QED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCL	8260 + THF
1-250mL	HNO3	6010/7470 Mn Fe, Na
1-500ml / 1-250ml	NONE	TDS / Chloride, Alk, Sulfate
6- 1-liter Amber	NONE	8081 / 8270 / 8151
1-125ml	NAOH	cyanide
1-125ml	Zn acet. / NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 13.3 Time: 15:30 Turbidity (ntu): 12.2 Time: 15:30

Sample pH (s.u.): 5.9 Time: 15:30 Dis. Oxy. (mg/L): 2.5 Time: 15:30

Specific Cond. (uS): 492.0 Time: 15:30 Res. Cl (mg/L): — Time: —

ReDox (mV): 262.8 Time: 15:30 Other: — Time: —

Odor: NONE Appearance: clear

General Observations: MW-4R micropurge method PSI = 8 Refill = 10sec D.T. = 25sec

Weather Conditions: 85°F WINDS 5 to 10 mph clear

Sampler Signature: [signature] Date: 05/06/17

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (mls) ~~(gals.)~~	Other
14:44	5.9	178.0	222.2	115.3	5.0	13.6	600	—
14:47	5.9	155.3	233.5	225.5	4.9	13.4	1200	—
14:50	5.9	147.0	237.1	138.4	4.8	13.4	1800	—
14:53	5.8	125.0	248.4	91.8	4.5	13.3	2400	—
14:56	5.7	129.4	258.9	71.9	4.2	13.5	3000	—

Client: HDR

Location: Winston-Salem NC

Project: OSR (5-6-15)

Well ID: MW-4R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
14:59	5.8	188.4	263.2	54.9	3.7	13.2	3600
15:02	5.8	211.9	264.2	42.5	3.6	13.2	4200
15:05	5.8	239.1	263.6	29.7	3.4	13.3	4800
15:08	5.8	291.3	264.3	26.2	3.0	13.3	5400
15:11	5.8	327.8	264.7	20.9	3.0	13.3	6000
15:14	5.8	356.9	264.4	15.4	2.8	13.2	6600
15:17	5.9	401.6	263.3	17.7	2.5	13.3	7200
15:21	5.9	420.8	262.9	13.5	2.4	13.3	7800

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-5R

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): MSM / JJQ - 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*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 10.91 ft. Casing Volume: 3.1 gallons
Height of Water Col.: 19.09 ft. Cal. 3 Volumes: 9.3 gallons

Purge Information

Date Purged: 05/07/15 Time Start: 10:46 Finish: 11:04 Purge Rate: 200 ml
Purging Method: Del QED Bladder pump Total Volume Purged: 3600 ml / 1.0 gallons

Sampling Information

Date Sample Collected: 05/07/15 Time Sample Collected: 11:10 (am) pm
Sampling Equipment Used: Del QED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + TAF
1-250ml	HNO3	6010 / 7470 + Mn, Fe, Na
1-500ml / 1-250ml	NONE	TDS / Chloride Alk Sul
1-125ml	NAOH	Cyanide
1-125ml	Zn Acet. NAOH	Sulfide

Field Measurements/Observations

Sample Temp. (°C): 14.7 Time: 11:10 | Turbidity (ntu): 2.2 Time: 11:10
Sample pH (s.u.): 5.9 Time: 11:10 | Dis. Oxy. (mg/L): 6.8 Time: 11:10
Specific Cond. (uS): 175.1 Time: 11:10 | Res. Cl (mg/L): — Time: —
ReDox (mV): 244.4 Time: 11:10 | Other: — Time: —
Odor: NONE | Appearance: clear
General Observations: MW-5R micropurge method Refill = 10 sec Discharge = 2.5 sec
Weather Conditions: 85°F WINDS 570 10mph clear

Sampler Signature: J Quattrin Date: 05/07/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (~~gals.~~ ml)	Other
1049	5.9	175.2	244.0	1.4	7.5	15.0	600	—
1052	5.9	175.2	242.5	1.5	7.4	14.9	1200	—
1055	5.9	175.1	241.2	1.0	7.2	14.8	1800	—
1058	5.9	175.0	242.2	1.6	7.0	14.8	2400	—
1101	5.9	174.8	243.7	2.0	6.9	14.6	3000	—

Client: HDR

Location: Winston-Salem, NC

Project: OSR (05/07/15)

Well ID: ~~MW~~ MW-5R

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
1104	5.9	174.8	244.4	2.2	6.8	14.6	3600

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-7

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): MSM - JJQ / 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*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 37.68 ft. Casing Volume: 1.7 gallons
Height of Water Col.: 10.32 ft. Cal. 3 Volumes: 5.1 gallons

Purge Information

Date Purged: 05/06/15 Time Start: 13:53 Finish: 14:11 Purge Rate: 100 ml/min
Purging Method: Deed QED Bladder pump Total Volume Purged: 1800 ml / 0.5 gallons

Sampling Information

Date Sample Collected: 05/06/15 Time Sample Collected: 14:15 am (pm)
Sampling Equipment Used: Deed QED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCP	8260 + THF
1-250ml	HNO_3	6010 / 7470 Na Fe Mn
1-500ml / 1-250ml	NONE	TDS / chloride, Alk, sulfate
1-125ml	NaOH	cyanide
1-125ml	Zn Act / NaOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 16.7 Time: 14:15 | Turbidity (ntu): 1.2 Time: 14:15
Sample pH (s.u.): 5.6 Time: 14:15 | Dis. Oxy. (mg/L): 0.4 Time: 14:15
Specific Cond. (uS): 194.8 Time: 14:15 | Res. Cl (mg/L): — Time: —
ReDox (mV): 228.8 Time: 14:15 | Other: — Time: —
Odor: NONE | Appearance: Clear

General Observations: MW-7 micropurge method PSI = 21 Refill = 10 sec DIS = 5 sec

Weather Conditions: 85°F WINDS 5 to 10 mph clear

Sampler Signature: J Qualtrin Date: 05/06/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
13:56	5.6	195.6	193.6	11.9	4.1	17.1	300	—
13:59	5.6	198.8	209.5	2.4	3.2	16.8	600	—
14:02	5.6	198.1	216.7	1.7	0.6	16.8	900	—
14:05	5.6	197.4	221.9	1.2	0.4	16.6	1200	—
14:08	5.6	196.2	228.5	1.2	0.4	16.6	1500	—

Client: HDR

Location: Winston-Salem, NC

Project: OSR (5-6-15)

Well ID: MW-7

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
14:11	5.6	195.6	209.2	0.8	0.4	16.7	1800

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-8

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Wmston-Salem NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): JJQ/MSM - 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*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 16.85 ft. Casing Volume: 1.6 gallons
Height of Water Col.: 10.15 ft. Cal. 3 Volumes: 4.8 gallons

Purge Information
Date Purged: 05/05/15 Time Start: 12:08 Finish: 12:23 Purge Rate: 200 ml/min
Purging Method: QED DED Bladder pump Total Volume Purged: 3000 ml / 0.8 gallons

Sampling Information
Date Sample Collected: 05/05/15 Time Sample Collected: 1230 am (pm)
Sampling Equipment Used: QED DED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 Appl I + THF
1-250ml	HNO_3	TDS Appl 6010/7470 + Na Fe Mn
1-500ml / 1-250ml	NONE	TDS Alk Chloride sulfate
1-125ml	Zn acet. / NAOH	Sulfide
1-125ml	NAOH	cyanide

Field Measurements/Observations

Sample Temp. (°C): 16.1	Time: 1230	Turbidity (ntu): 2.3	Time: 1230
Sample pH (s.u.): 5.7	Time: 1230	Dis. Oxy. (mg/L): 5.7	Time: 1230
Specific Cond. (uS): 50.9	Time: 1230	Res. Cl (mg/L): —	Time: —
ReDox (mV): 255.2	Time: 1230	Other: —	Time: —
Odor: NONE		Appearance: clear	

General Observations: MW-8 micropurge method 10psi Refill = 10 sec
Equip-Blank 5/5/15 10:20 D13 = 5 sec
Weather Conditions: 75°F WINDS 5 to 10 mph partly cloudy

Sampler Signature: J Quattrone Date: 05/15/15

Stabilization Test 0.1 0.2

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume ml/s Removed (~~gals.~~)	Other
12:11	5.6	53.2	256.2	3.0	7.6	16.2	600	—
12:14	5.7	51.7	256.7	2.6	6.0	16.2	1200	—
12:17	5.7	51.2	256.8	3.2	5.7	16.2	1800	—
12:20	5.7	51.1	256.2	2.2	5.8	16.1	2400	—
12:23	5.7	51.2	256.0	2.6	5.8	16.0	3000	—

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-9

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): JJQ / MSM - 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: 60.0 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 53.36 ft. Casing Volume: 1.1 gallons
Height of Water Col.: 6.64 ft. Cal. 3 Volumes: 3.3 gallons

Purge Information

Date Purged: 05/05/15 Time Start: 13:16 Finish: 13:37 Purge Rate: 300 ml/min
Purging Method: QED Decl Bladder pump Total Volume Purged: 6300 ml / 1.6 gallons

Sampling Information

Date Sample Collected: 05/05/15 Time Sample Collected: 1340 am (pm)
Sampling Equipment Used: QED Decl. Bladder pump

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 App I + THF
1-250ml	HNO3	6020 / 7470 Na Fe Mn
1-500ml / 1-250ml	NONE	TDS / Chloride Alk Sulfate
1-125ml	Zn Acet. / NaOH	Sulfide
1-125ml	NaOH	Cyanide

Field Measurements/Observations

Sample Temp. (°C): 17.5 Time: 1340
Sample pH (s.u.): 5.5 Time: 1340
Specific Cond. (uS): 148.3 Time: 1340
ReDox (mV): 206.8 Time: 1340
Odor: NONE

Turbidity (ntu): 1.4 Time: 1340
Dis. Oxy. (mg/L): 6.3 Time: 1340
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear

General Observations: MW-9 micropurge method 30 psi Refill = sec 10 DTS = sec 5

Weather Conditions: 80°F WINDS 5-10 mph clear

Sampler Signature: J Quelter Date: 05/05/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals) ml's	Other ml
13:19	5.4	155.0	259.2	2.9	7.5	17.5	900	—
13:22	5.5	152.4	262.0	1.4	6.7	17.4	1800	—
13:25	5.5	152.3	228.2	1.9	6.6	17.4	2700	—
13:28	5.5	151.4	224.8	2.1	6.6	17.4	3600	—
13:31	5.5	149.8	214.0	2.5	6.5	17.3	4500	—

Client: HDR

Location: Winston - Salem, NC

Project: OSR (5-5-15)

Well ID: MW-9

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
13:34	5.5	148.9	208.0	2.0	6.3	17.4	5400
13:37	5.5	148.6	206.0	1.6	6.4	17.5	6300

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 NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): MSM / JJQ - PACE
Name & Affiliation (Inspector): N/A

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: 11.65 ft. Casing Volume: 1.5 gallons
Height of Water Col.: 9.35 ft. Cal. 3 Volumes: 4.5 gallons

Purge Information

Date Purged: 05/06/15 Time Start: 0952 Finish: 10:25 Purge Rate: 100 ml/min
Purging Method: ded. QED Bladder pump Total Volume Purged: 3300 ml / 0.9 gallons

Sampling Information

Date Sample Collected: 05/06/15 Time Sample Collected: 1030 (am) pm
Sampling Equipment Used: ded. QED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250ml	HNO_3	6010 / 7470 + Mn Fe na
1-500ml / 1-250ml	NONE	TDS chloride Alk sulfate
1-125ml	NAOH	cyanide
1-125ml	Zn Acet. / NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 17.1 Time: 1030 | Turbidity (ntu): 246.4 Time: 1030
Sample pH (s.u.): 5.2 Time: 1030 | Dis. Oxy. (mg/L): 1.5 Time: 1030
Specific Cond. (uS): 297.2 Time: 1030 | Res. Cl (mg/L): — Time: —
ReDox (mV): 244.7 Time: 1030 | Other: — Time: —
Odor: NONE | Appearance: murky
General Observations: MW-10 micropurge method 10 psi Refill = 10 sec Dis = 5 sec
Weather Conditions: 75°F WINDS 5 to 10 mph clear
Sampler Signature: J Quether Date: 05/06/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume ~~gals.~~ mls Removed (gals.)	Other
09:55	5.3	290.5	269.3	65.0	2.2	14.5	300	—
09:58	5.2	303.3	265.7	63.4	2.0	14.3	600	—
10:01	5.2	293.7	259.0	209.2	1.8	14.3	900	—
10:04	5.2	292.6	252.9	312.0	1.7	15.2	1200	—
10:07	5.2	292.2	252.7	288.2	1.8	15.2	1500	—

Client: HDR

Location: Winston-Salem, NC

Project: OSR (05-06-15)

Well ID: MW-10

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
10:10	5.2	288.0	250.7	270.2	1.8	15.4	1800
10:13	5.2	287.7	249.4	264.3	1.7	15.9	2100
10:16	5.2	290.5	248.6	273.6	1.6	16.1	2400
10:19	5.2	294.6	246.8	228.6	1.5	16.2	2700
10:22	5.2	294.6	245.6	227.8	1.4	16.7	3000
10:25	5.2	297.0	244.7	213.7	1.5	17.1	3300

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, NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): MSM - JJO / PACE
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: 4.02 ft. Casing Volume: 2.6 gallons
Height of Water Col.: 15.98 ft. Cal. 3 Volumes: 7.8 gallons

Purge Information

Date Purged: 05/06/15 Time Start: 10:55 Finish: 11:25 Purge Rate: 400ml
Purging Method: Ded QED Bladder pump Total Volume Purged: 12000 mls / 3.2 gallons

Sampling Information

Date Sample Collected: 05/06/15 Time Sample Collected: 1130 (am) pm
Sampling Equipment Used: ded QED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 + THF
1-250ml	HNO_3	6010 / 7470 NA Fe Mn
1-500ml / 1-250ml	NONE	TDS chloride Alk sulfate
1-125ml	NAOH	cyanide
1-125ml	Zn act. / NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 13.4 Time: 1130 Turbidity (ntu): 8.0 Time: 11:30
Sample pH (s.u.): 6.0 Time: 1130 Dis. Oxy. (mg/L): 0.3 Time: 1130
Specific Cond. (uS): 407.8 Time: 1130 Res. Cl (mg/L): — Time: —
ReDox (mV): -34.3 Time: 1130 Other: — Time: —
Odor: NONE Appearance: clear
General Observations: MW-11 micropurge method ≈10psi Refill = 10sec
Dis = 5sec

Weather Conditions: 80°F WINDS 5 to 10 mph clear

Sampler Signature: J Walter Date: 05/06/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume mls Removed (gals.)	Other
10:58	6.0	410.1	-9.2	135.5	0.9	13.7	1200	—
11:01	6.0	409.7	-13.4	238.9	0.7	13.6	2400	—
11:04	6.0	407.5	-17.9	91.8	0.5	13.5	3600	—
11:07	6.0	404.9	-21.7	56.3	0.5	13.5	4800	—
11:10	6.0	404.7	-22.9	61.2	0.5	13.6	6000	—

Client: HDR

Location: Winston- Salem, NC

Project: OSR (05-06-15)

Well ID: MW-11

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
11:13	6.0	403.9	-25.2	30.6	0.4	13.4	7200
11:16	6.0	404.5	-28.0	30.0	0.4	13.5	8400
11:19	6.0	404.3	-29.1	14.5	0.3	13.5	9600
11:22	6.0	405.2	-31.8	7.6	0.3	13.4	10800
11:25	6.0	407.8	-33.5	8.5	0.3	13.4	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-12

GROUNDWATER SAMPLING **FIELD DATA SHEET**

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

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*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 4.91 ft. Casing Volume: 1.7 gallons
Height of Water Col.: 10.67 ft. Cal. 3 Volumes: 5.1 gallons

Purge Information

Date Purged: 05/06/15 Time Start: 11:46 Finish: 12:22 Purge Rate: 100 ml/min
Purging Method: clad QED Bladder pump Total Volume Purged: 3600 ml 1.0 gallons

Sampling Information

Date Sample Collected: 05/06/15 Time Sample Collected: 1230 am pm
Sampling Equipment Used: clad QED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40ml	HCL	8260+THF
1-250ml	HNO3	6010 / 7470 + Fe Mn Na
1-500ml / 1-250ml	NONE	TDS / chloride MIC sulfate
1-250ml	NAOH	cyanide
1-250ml	Zn Acet. / NAOH	sulfide

Field Measurements/Observations

Sample Temp. (°C): 14.9 Time: 12:30
Sample pH (s.u.): 6.0 Time: 12:30
Specific Cond. (uS): 234.3 Time: 12:30
ReDox (mV): 230.6 Time: 12:30
Odor: NONE
Turbidity (ntu): 7.7 Time: 12:30
Dis. Oxy. (mg/L): 5.4 Time: 12:30
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: clear

General Observations: MW-12 PSI ≈ 7 Refill 10sec micropurge method DIS 5sec

Weather Conditions: 80°F WINDS 5 to 10 mph clear

Sampler Signature: J. Qualtieri Date: 05/06/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (~~gals.~~) mls	Other
11:49	6.0	229.9	160.6	18.1	6.5	13.9	300	—
11:52	6.0	235.0	189.7	39.4	6.2	13.8	600	—
11:55	6.0	236.2	210.5	41.9	5.9	13.9	900	—
11:58	6.0	236.4	213.9	34.8	6.1	13.9	1200	—
12:01	6.0	236.6	219.4	25.4	5.9	14.2	1500	—

Client:	HDR
Location:	Winston-Salem, NC
Project:	QSR (5/6/15)
Well ID:	MW-12

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
12:04	6.0	235.8	223.2	23.6	5.8	14.2	1800
12:07	6.0	235.6	225.5	21.8	5.8	14.2	2100
12:10	6.0	234.9	228.6	14.3	5.7	14.4	2400
12:13	6.0	235.0	230.2	12.9	5.5	14.3	2700
12:16	6.0	234.6	230.2	11.9	5.5	14.5	3000
12:19	6.0	234.2	229.6	8.0	5.3	14.8	3300
12:22	6.0	234.0	230.4	8.3	5.3	14.9	3600

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 NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): MASM / JJO - PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: mw-13 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: 8.98 ft. Casing Volume: 1.8 gallons
Height of Water Col.: 11.02 ft. Cal. 3 Volumes: 5.4 gallons

Purge Information

Date Purged: 05/05/15 Time Start: 16:46 Finish: 17:01 Purge Rate: 400ml/min
Purging Method: QED Bladder pump Total Volume Purged: 6000ml / 1.6 gallons

Sampling Information

Date Sample Collected: 05/05/15 Time Sample Collected: 17:10 am (pm)
Sampling Equipment Used: QED Bladder pump

Bottle Type	Preservation	Analysis Required
3-40ml VOA	HCl	8260 App I + THF
1-250ml	HNO_3	6020/7470 Mn Fe Na
1-500ml / 1-250ml	NONE	TDS / chloride, MK, sulfate
1-125ml	Zn Acetate / NaOH	sulfide
1-125ml	NaOH	cyanide

Field Measurements/Observations

Sample Temp. (°C): 18.7 Time: 17:10 | Turbidity (ntu): 32.7 Time: 17:10
Sample pH (s.u.): 5.7 Time: 17:10 | Dis. Oxy. (mg/L): 2.7 Time: 17:10
Specific Cond. (uS): 115.0 Time: 17:10 | Res. Cl (mg/L): — Time: —
ReDox (mV): 218.9 Time: 17:10 | Other: — Time: —
Odor: NONE | Appearance: clear

General Observations: mw-13 micropurge method 10 psi Refill = 10 sec Dis = 5 sec

Weather Conditions: 80F winds 5 to 10 mph clear

Sampler Signature: J Quatt Date: 05/05/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1649	5.7	114.0	224.2	61.0	2.8	14.1	1200	—
1652	5.7	113.7	223.5	41.5	2.3	15.5	2400	—
1655	5.7	114.8	220.8	35.5	2.5	17.9	3600	—
1658	5.7	115.1	220.8	34.4	2.6	18.3	4800	—
1701	5.7	115.1	219.9	33.5	2.7	18.6	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-14

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): MSM - JJQ - 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: 60.0 ft. Multi. Factor*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 52.23 ft. Casing Volume: 1.3 gallons
Height of Water Col.: 7.77 ft. Cal. 3 Volumes: 3.9 gallons

Purge Information

Date Purged: 05/05/15 Time Start: 14:02 Finish: 1438 Purge Rate: 200ml/min
Purging Method: QED Ded bladder pump Total Volume Purged: 7200ml / 1.9 gallons

Sampling Information

Date Sample Collected: 05/05/15 Time Sample Collected: 1445 am (pm)
Sampling Equipment Used: QED Ded bladder pump

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260
1-500mL / 1-250mL	NONE	TDS / Sulfate / Alk / chloride
1-250mL	HNO3	6020 / 7470 Na Fe Mn
1-125mL	Zn Acet. / NAOH	Sulfide
1-125mL	NAOH	cyanide

Field Measurements/Observations

Sample Temp. (°C): 17.1 Time: 1445
Sample pH (s.u.): 5.6 Time: 1445
Specific Cond. (uS): 150.1 Time: 1445
ReDox (mV): 221.2 Time: 1445
Odor: NONE

Turbidity (ntu): 26.1 Time: 1445
Dis. Oxy. (mg/L): 5.2 Time: 1445
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: Clear

General Observations: MW-14 micropurge method 30 psi Refill = 10sec Dis = 55sec

Weather Conditions: 80°F Clear 5 to 10 mph

Sampler Signature: J Quattrer Date: 05/05/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed ~~(gals.)~~ mls	Other
1405	5.6	145.8	231.6	24.0	6.4	18.1	600	—
1408	5.6	146.0	231.0	32.7	6.1	17.9	1200	—
1411	5.6	145.7	230.7	22.8	5.8	17.7	1800	—
1414	5.6	145.8	228.3	26.2	5.7	17.5	2400	—
1417	5.6	145.8	228.4	21.4	5.6	17.5	3000	—

Client: HDR

Location: Winston-Salem, NC

Project: OSR (5-5-15)

Well ID: MW-14

Time purged	pH (su)	Spec. Cond.(uS)	Redox (mv)	Turb.(ntu)	Dis. Oxy.(mg/l)	Temp.(C)	Vol. (ml) Removed
1420	5.6	147.0	228.5	24.6	5.7	17.4	3600
1423	5.6	146.6	227.0	45.0	5.5	17.5	4200
1426	5.6	147.0	226.7	31.0	5.5	17.5	4800
1429	5.6	148.0	225.0	30.5	5.4	17.3	5400
1432	5.6	147.0	221.3	27.6	5.2	17.2	6000
1435	5.6	146.5	219.4	27.0	5.2	17.1	6600
1438	5.6	147.0	220.1	26.1	5.2	17.1	7200
1441							7800

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, NC Project Name/#: OSR
Name & Affiliation (Sampler(s)): MSM & JSQ - PACE
Name & Affiliation (Inspector): N/A

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*: 0.163 {*(Radius/12)² X 3.14 x 7.48}
Static Water Level: 39.21 ft. Casing Volume: 3.4 gallons
Height of Water Col.: 20.64 ft. Cal. 3 Volumes: 10.2 gallons

Purge Information

Date Purged: 05/05/15 Time Start: 1545 Finish: 1614 Purge Rate: N/A
Purging Method: bailer Total Volume Purged: 10.5 gallons

Sampling Information

Date Sample Collected: 05/05/15 Time Sample Collected: 1630 am (pm)
Sampling Equipment Used: bailer

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 App I + THF
1-250mL	HNO3	6020 / 7470 Fe Na Mn
1-500mL ~~6 liter amber~~ 1-250mL	NONE	TDS Chloride Alk Sulfate
6-1-liter amber 1-125mL	NONE NaOH	8151 / 8081 / 8270 cyanide sulfide

Field Measurements/Observations 1-125mL zinc acet NaOH

Sample Temp. (°C): 17.3 Time: 16:30 Turbidity (ntu): 81.7 Time: 16:30
Sample pH (s.u.): 6.2 Time: 16:30 Dis. Oxy. (mg/L): 2.0 Time: 16:30
Specific Cond. (uS): 611 Time: 16:30 Res. Cl (mg/L): — Time: —
ReDox (mV): 176.0 Time: 16:30 Other: — Time: —
Odor: NONE Appearance: murky
General Observations: MW-15

Weather Conditions: 80°F WINDS 5 to 10 mph Clear

Sampler Signature: J Quattrone Date: 05/05/15

Stabilization Test

Time Purged	pH (s.u.)	Spec. Cond. (uS)	Redox. (mV)	Turbidity (ntu)	Dissolved Oxy. (mg/L)	Temp. (°C)	Volume Removed (gals.)	Other
1550	6.2	673	160.8	12.0	1.6	18.6	3.5	—
1603	6.2	631	171.0	28.3	2.1	17.3	7	—
1614	6.2	630	176.0	68.3	2.0	17.3	10.5	—

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

SW-1

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston-Salem, NC Project Name/#: CSR
Name & Affiliation (Sampler(s): JDQ, MSM – PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: SW-1 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

Date Purged: — / — / — Time Start: — Finish: — Purge Rate: —
Purging Method: — Total Volume Purged: — gallons

Sampling Information

Date Sample Collected: 5 / 7 / 15 Time Sample Collected: 1250 am (pm)
Sampling Equipment Used: Grab

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THF
1-250mL	HNO_3	6010/7470 + Mn, Fe, Na
1-500mL/1-250mL	None	TDS/Chloride/Alk/Sul.
1-250mL	NAOH	Cyanide
1-250mL	NAOH	Sulfide

Field Measurements/Observations

Sample Temp. (°C): 20.4 Time: 1250
Sample pH (s.u.): 6.3 Time: 1250
Specific Cond. (uS): 228.7 Time: 1250
ReDox (mV): 11.0 Time: 1252
Odor: None
Turbidity (ntu): 26.5 Time: 1250
Dis. Oxy. (mg/L): 4.5 Time: 1250
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: Murky
General Observations: SW-1 Surface H_2O

Weather Conditions: 80°F, Sunny, Wind 5-10mph

Sampler Signature: [signature] Date: 05 / 07 / 15

Stabilization Test

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

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

SW-2

GROUNDWATER SAMPLING **FIELD DATA SHEET**

Client: HDR Location: Winston Salem, NC Project Name/#: CSIR
Name & Affiliation (Sampler(s): Matt Mackobki / J Quialtiem / PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: SW-2 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

Date Purged: 5 / 7 / 15 Time Start: — Finish: — Purge Rate: —
Purging Method: — Total Volume Purged: — gallons

Sampling Information

Date Sample Collected: 5 / 7 / 15 Time Sample Collected: 1140 (am) pm
Sampling Equipment Used: Grab

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THF
1-250mL	HNO_3	6010 / 7470 + Mn, Fe, Na
1-500mL / 1-250mL	None	TDS / Chloride / Alk / Sul
1-250mL	NAOH	Cyanide
1-250mL	NAOH	Sulfide

Field Measurements/Observations

Sample Temp. (°C): 19.7 Time: 1140
Sample pH (s.u.): 6.5 Time: 1140
Specific Cond. (uS): 185.9 Time: 1140
ReDox (mV): -79.4 Time: 1140
Odor: NONE
Turbidity (ntu): 385.5 Time: 11:40
Dis. Oxy. (mg/L): 0.2 Time: 1140
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: murky
General Observations: SW-2 slow moving pool surface water

Weather Conditions: 85°F WINDS S to 10 mph clear

Sampler Signature: J Quialtiem Date: 05/07/15

Stabilization Test

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

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

SW-3

GROUNDWATER SAMPLING FIELD DATA SHEET

Client: HDR Location: Winston-Salem, NC Project Name/#: OSR
Name & Affiliation (Sampler(s): Matt Markofski / J. Quattrini – PACE
Name & Affiliation (Inspector): N/A

Well Information

Well ID: SW-2 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

Date Purged: —/—/— Time Start: — Finish: — Purge Rate: —
Purging Method: — Total Volume Purged: — gallons

Sampling Information

Date Sample Collected: 5 / 7 / 15 Time Sample Collected: 1205 am pm
Sampling Equipment Used: Grab

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THF
1-250mL	HNO_3	6010/7470 + Mn, Fe, Na
1-500mL/1-250mL	None	TDS/Chloride/Alk./Sul.
1-250mL	NAOH	Cyanide
1-250mL	NAOH	Sulfide

Field Measurements/Observations

Sample Temp. (°C): 17.5 Time: 1205
Sample pH (s.u.): 6.9 Time: 1205
Specific Cond. (uS): 364.2 Time: 1205
ReDox (mV): -15.8 Time: 1205
Odor: None
Turbidity (ntu): 42.7 Time: 1205
Dis. Oxy. (mg/L): 6.9 Time: 1205
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: Murky.
General Observations: SW-3 surface H2O

Weather Conditions: 80°F, Sunny, wind 5-10mph

Sampler Signature: [signature] Date: 05 / 07 / 15

Stabilization Test

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

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): JJG, MSM – 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

Date Purged: —/—/— Time Start: — Finish: — Purge Rate: —
Purging Method: — Total Volume Purged: — gallons

Sampling Information

Date Sample Collected: 5/7/15 Time Sample Collected: 1230 am pm
Sampling Equipment Used: Grab

Bottle Type	Preservation	Analysis Required
3-40mL VOA	HCl	8260 + THF
1-250mL	HNO_3	6010/7470 + Mn, Fe, Na
1-500mL/1-250mL	None	TDS/Chloride/Alk/Sul
1-250mL	NAOH	Cyanide
1-250mL	NAOH	Sulfide

Field Measurements/Observations

Sample Temp. (°C): 18.2 Time: 1230
Sample pH (s.u.): 6.5 Time: 1230
Specific Cond. (uS): 603 Time: 1230
ReDox (mV): -25.5 Time: 1230
Odor: None
Turbidity (ntu): 18.6 Time: 1230
Dis. Oxy. (mg/L): 3.5 Time: 1230
Res. Cl (mg/L): — Time: —
Other: — Time: —
Appearance: Murky
General Observations: SW-4 surface H_2O

Weather Conditions: 80°F, Sunny, wind 5-10mph

Sampler Signature: [signature] Date: 05/07/15

Stabilization Test

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

D

Appendix D – Electronic Files

Portable Document Format (PDF) of this Report

Electronic Data Deliverable (EDD) of Groundwater Results

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