THE UNIVERSITY OF ARIZONA

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January 15, 2013

Mr. Anthony Leverock, Supervisor
Hazardous Waste Permit Unit
Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, Arizona 85007

Subject: Semi-Annual Monitoring Report
April 2012 to October 2012
Page Trowbridge Ranch Landfill – EPA ID No. AZD 980 665 814
Pinal County, Arizona

Dear Mr. Leverock,

Enclosed please find the Semi-Annual Monitoring Report for the Page Trowbridge Ranch Landfill, as required by the Post Closure Permit for this site. If you or other ADEQ staff have any questions or comments, please contact me at (520)621-1790 or sholland@email.arizona.edu.

OWNER'S CERTIFICATION

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

Signed: Steven C. Holland Date: 1/15/2013

Steven C. Holland, Assistant Vice President
Department of Risk Management Services
University of Arizona

January 14, 2013
AMEC Project No. 1420122032

Mr. Steven C. Holland, Assistant Vice President
Department of Risk Management Services
University of Arizona

Subject: Semi-Annual Monitoring Report
April 2012 to October 2012
Page Trowbridge Ranch Landfill
Pinal County, Arizona

Dear Mr. Holland,

AMEC Environment & Infrastructure, Inc. (AMEC) is submitting this Semi-Annual Monitoring Report for the Page Trowbridge Ranch Landfill (PTRL) to the University of Arizona (UA). This report summarizes groundwater and soil vapor monitoring data, operational data for the soil vapor extraction (SVE) system, and post-closure inspection of the PTRL facility for the period of April to October 2012.

Monitoring activities during the reporting periods consist of operation of the SVE system, collection of soil vapor samples for analysis, groundwater elevation measurement, collection of groundwater samples for analysis, and post-closure inspection. Figure 1 shows the locations of groundwater and soil vapor monitoring points, as well as the location of the SVE system. Operation of the SVE system and collection of operational data were performed by UA personnel in accordance with the Operation and Maintenance Manual (March 2012). Groundwater and soil vapor monitoring activities were performed by UA personnel in accordance with the Post-Closure Period Expanded Groundwater Detection Monitoring Plan (March 29, 2012). Post-closure inspection was conducted by UA personnel in accordance with the Post-Closure Inspection and Maintenance Plan (March 2012). The operation of the SVE system is described first, followed by summaries of groundwater and soil vapor monitoring data.

1.0 OPERATION OF SVE SYSTEM

The SVE system operated throughout the reporting period except during a scheduled suspension of operations between May 11, 2012 when the SVE system was manually shut down and August 31, 2012 when it was restarted.

During SVE operation, soil vapor well SGS-Well was used for extraction, while well SGD-Well was used for air injection. The SVE system was monitored approximately weekly when it was in operation. The SVE run time is tabulated in Table 1. The percentage of time when the SVE system was in operation (as calculated between monitoring periods) varied between 32% and 47%, mostly as a function of available solar power (there is no other power source at the site). Instantaneous flow rates, cumulative volumes, and time-averaged flow rates are also reported in Table 1. It was determined that the unrealistically high pitot tube differential pressure readings from pressure gauges located on SGS-Well and SGD-Well process piping since February 2010 were a result of field personnel recording readings of flow velocity as pressure. After flow

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velocity readings were converted to pressure using dry air density, cumulative volumes and time-average flow rates were calcualted. The time-averaged extraction rate (SGS-Well) and injection rate (SGD-Well) for the period of April to October 2012 were 13 and 3.83 standard cubic feet per minute (scfm), higher than the minimum rates of 9.25 and 3.75 scfm as in Appendix G-7 to the Arizona Hazardous Waste Management Act Permit dated June 29, 2012.

SVE process samples were collected from the SVE system at sample ports before the treatment vessels (influent), between the two treatment vessels (between-vessel), and after the treatment vessels (effluent) in September and October 2012. These soil vapor samples were submitted to Turner Laboratory, an Arizona Department of Health Services-certified laboratory in Tucson, Arizona for analysis of volatile organic compounds (VOCs) using EPA Method TO-15. Laboratory reports for these soil vapor samples are included in Attachments 1 through 2. Chain of Custody forms are at the end of each laboratory report. Analytical results for the influent and effluent samples are presented in Table 2. The data collected since October 2011 are included in Table 2 for comparison purpose. The results for between-vessel samples are in the laboratory reports. Data quality reviews for each laboratory reports are included in each attachment.

2.0 SOIL VAPOR MONITORING ACTIVITIES AND RESULTS

The soil vapor monitoring network consists of two groundwater monitoring wells (MW-2 and MW-5) and six soil vapor monitoring points: SGS-Well, SGD-Well, SGS-SP, SGD-SP, SGD-MP, and SGD-DP, as shown on Figure 1. Groundwater monitoring wells MW-2 and MW-5 are equipped with down-hole inflatable packers that, when inflated, isolate the screen interval above the water table and thus allow soil vapor samples to be collected from these wells.

Semi-annual soil vapor monitoring was performed on October 17, 2012, when the SVE system was in operation. Soil vapor samples were collected from MW-2, MW-5, SGD-SP, SGD-MP, and SGD-DP. Soil vapor sample was not collected from monitoring point SGS-SP because the sampling port was damaged. The sampling port is expected to be repaired in January 2013. Soil vapor at SGS-Well is monitored with samples collected at the SVE influent. SGD-well was being used for air injection, and therefore was not sampled. The soil vapor samples were submitted to Turner Laboratory for analysis of VOCs using EPA Method TO-15. Laboratory report and data quality review for these soil vapor samples are included in Attachment 3. Chain of Custody forms are at the laboratory report. The soil vapor sampling logs are included in Attachment 4. The analytical results for the soil vapor samples collected during the reporting period are tabulated in Table 3 and graphically presented in Figures 3a through 3t. The data collected since October 2011 are included in Table 3 for comparison purpose.

Table 4 presents site threshold concentrations for additional actions for seven VOCs. These thresholds were developed to prompt additional actions to investigate whether groundwater quality may be impacted by releases from the landfill. The detected concentrations of VOCs in soil vapor samples collected on October 17, 2012 and in the SVE influent, are compared to site thresholds. None of the VOCs was detected at concentrations higher than site thresholds except for chloroform. The chloroform concentration in the sample collected on October 17, 2012 from monitoring point SGD-MP was 150 mg/m^3, which is higher than its threshold of 140 mg/m^3. However, the detected concentration is within the range of historical data. The Mann-

Kendall test, which is a non-parametric statistical test for trend, is used to assess whether a statistically significant upward trend in chloroform concentration is present, which would be an indication of releases in the landfill. The data used in the Mann-Kendall test include chloroform concentrations in samples collected from SGD-MP during SVE operation between November 2009 and October 2012. The Mann-Kendall test was performed using the Kendall program developed by the U.S. Geological Survey (USGS)[1]. The input and output files for the Kendall program are presented in Table 5. The p-value in the output is 1, indicating that there is a nearly 100% probability that these chlorform concentrations may be observed when no trend is present. Therefore, there is no statistically significant upward trend, and no further action is necessary.

3.0 GROUNDWATER MONITORING ACTIVITIES AND RESULTS

The groundwater monitoring network consists of four groundwater monitoring wells, MW-2, MW-3, MW-4, and MW-5, as shown on Figure 1. On October 17, 2012, groundwater elevations were measured at each well, and groundwater samples were collected from each well. The samples were sent to Turner Laboratory for the following analyses:

- Sodium and manganese by EPA Method 200.7
- Chloride and sulfate by EPA Method 300.0
- VOCs by EPA Method 524.2
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270C
- Organochlorine pesticides by EPA Method 8081

The groundwater sampling logs are included in Attachment 5. The laboratory reports for the groundwater samples are included in Attachment 6. The Chain of Custody forms are at the end of the laboratory reports.

Groundwater elevation measurements on October 17, 2012 are summarized in Table 6, and are graphically presented on Figure 2. These data indicate that groundwater flow direction is toward the southeast. The field parameters collected during groundwater sampling are summarized in Table 7. Analytical results for the groundwater samples are presented in Table 8. These results are compared to the alert levels for inorganic and organic constituents in Tables 9 and 10, respectively. None of the compounds was detected at concentrations higher than their alert levels.

4.0 POST-CLOSURE INSPECTION

Post-closure inspection was conducted on June 28, July 6, August 16, and September 6, 2012. Two maintenance items were identified during the inspections. The inspection and maintenance/repair reports are included in Attachment 7. In addition, the damaged soil vapor sampling port at SGD-SP is expected to be repaired in January 2013.

1 USGS, 2006, Computer Program for the Kendall Family of Trend Tests, Scientific Investigation Report 2005-5275, http://pubs.usgs.gov/sir/2005/5275/

If you have any questions or comments, please contact Miao Zhang at (206)838-8462 or miao.zhang@amec.com.

Respectfully submitted,

AMEC Environment & Infrastructure, Inc.

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Registered Professional Engineer (Civil)
CERTIFICATE NO. 53221
MIAO ZHANG
Date Signed 1/14/13
ARIZONA U.S.A.
EXPIRES 3/31/15

Enclosures:

Table 1 – Summary of Operation of the SVE System
Table 2 – Analytical Results for Soil Vapor Samples from SVE System
Table 3 – Analytical Results for Soil Vapor Samples at Soil Vapor Monitoring Points
Table 4 – Thresholds for Additional Actions for Soil Vapor Samples
Table 5 – Input and Output Files for USGS Kendall Program
Table 6 – Groundwater Elevations
Table 7 – Groundwater Field Parameters
Table 8 – Analytical Results for Groundwater Samples
Table 9 – Alert Levels for Inorganic Constituents in Groundwater Samples
Table 10 – Alert Levels for Organic Constituents in Groundwater Samples

Figure 1 – Groundwater and Soil Vapor Monitoring Points
Figure 2 – Groundwater Elevations – October 17, 2012
Figures 3a-3t – Soil Vapor VOC Concentration Trends

Attachment 1 – Laboratory Reports for September 2012 SVE Process Samples (CD only)
Attachment 2 – Laboratory Reports for October 2012 SVE Process Samples (CD only)
Attachment 3 – Laboratory Reports for October 2012 Soil Vapor Samples (CD only)
Attachment 4 – Soil Vapor Sampling Logs (CD only)
Attachment 5 – Groundwater Sampling Logs (CD only)
Attachment 6 – Laboratory Reports for October 2012 Groundwater Samples (CD only)
Attachment 7 – Post-Closure Inspection and Maintenance/Repair Reports (CD only)

TABLES

Table 1. SVE Operation Data
Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Date	Hour Meter Reading (hours)		Elapsed Time (hours)	Run Time (hours)		Percentage of Operation		Instantaneous Flow Rate (scfm)		Volume for the Period (ft^3)		Cumulative Volume (ft^3)		Time-Averaged Flow Rate (scfm)		Comments
	SGS-Well	SGD-Well	SGS-Well	SGS-Well	SGD-Well	SGS-Well	SGD-Well	SGS-Well	SGD-Well	SGS-Well	SGD-Well	SGS-Well	SGD-Well	SGS-Well	SGD-Well	
4/19/2012	7687.9	8842.6	168	70	69	42%	41%	81	27	339,826	111,819	43,840,028	16,155,289	34	11	
4/26/2012	7754.3	8909.5	168	66	67	40%	40%	81	34	322,349	135,324	44,162,378	16,290,613	32	13	
5/11/2012	7902.8	9055.2	360	149	146	41%	40%	81	27	720,917	235,775	44,883,295	16,526,387	33	11	Shut down system
8/31/2012	7902.8	9055.2														Restarted system
9/21/2012	8089.7	9227.5	505	187	172	37%	34%	81	27	907,336	278,819	45,790,631	16,805,207	30	9	
9/26/2012	8135.7	9273.2	120	46	46	38%	38%	81	27	223,314	73,953	46,013,945	16,879,159	31	10	
10/19/2012	8396.7	9448.9	552	261	176	47%	32%	81	27	1,267,066	284,321	47,281,011	17,163,481	38	9	
April 2012 to October 2012			4392	709	606	16%	14%					3,440,983	1,008,191	13.06	3.83	
Minimum Time-Averaged Flow Rate (scfm)														9.25	3.75	

Abbreviations:
ft^3 = cubic feet
scfm = standard cubic feet per minute

TABLE 2

ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES FROM SVE SYSTEM

Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per cubic meter (mg/m^3)

	Influent to Treatment Vessels					Effluent from Treatment Vessels				
Analyte / Sample Date	**10/4/2011**	**3/8/2012**	**4/2/2012**	**9/6/2012**	**10/4/2012**	**10/4/2011**	**3/8/2012**	**4/2/2012**	**9/6/2012**	**10/4/2012**
1,1,1-Trichloroethane	5.7E-01 U	1.5E+00 U	5.4E-01 U	1.4E+00 U	1.4E+00 U	7.4E-03 U	8.0E-03 U	4.7E-01 U	7.0E-03 U	9.7E-02 U
1,1,2,2-Tetrachloroethane	7.1E-01 U	1.9E+00 U	6.8E-01 U	1.8E+00 U	1.8E+00 U	9.4E-03 U	1.1E-02 U	5.9E-01 U	8.8E-03 U	1.2E-01 U
1,1,2-Trichloroethane	5.7E-01 U	1.5E+00 U	5.4E-01 U	1.4E+00 U	1.4E+00 U	7.4E-03 U	8.0E-03 U	4.7E-01 U	7.0E-03 U	9.7E-02 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	7.2E+00	1.1E+01	1.1E+01	1.3E+01	1.2E+01	1.0E-02 U	1.2E-02 U	6.6E-01 U	9.9E-03 U	1.4E-01 U
1,1-Dichloroethane	4.2E-01 U	1.1E+00 U	4.4E-01	1.0E+00 U	1.0E+00 U	5.5E-03 U	6.0E-03 U	3.5E-01 U	5.2E-03 U	7.2E-02 U
1,1-Dichloroethene	5.6E-01	1.1E+00 U	1.0E+00	1.2E+00	1.2E+00	5.4E-03 U	6.0E-03 U	3.4E-01 U	5.1E-03 U	7.1E-02 U
1,1-Difluoroethane	--	2.9E+00 U	--	--	--	--	1.7E-02 U	--	--	--
1,2,4-Trichlorobenzene	3.1E+00 U	8.0E+00 U	2.9E+00 U	7.6E+00 U	1.9E+01 U	4.0E-02 U	4.7E-02 U	2.5E+00 U	3.8E-02 U	1.3E+00 U
1,2,4-Trimethylbenzene	5.1E-01 U	1.3E+00 U	4.9E-01 U	1.3E+00 U	1.2E+00 U	6.7E-03 U	7.0E-03 U	4.2E-01 U	6.3E-03 U	8.8E-02 U
1,2-Dibromoethane (EDB)	8.0E-01 U	2.1E+00 U	7.6E-01 U	2.0E+00 U	2.0E+00 U	1.0E-02 U	1.2E-02 U	6.6E-01 U	9.9E-03 U	1.4E-01 U
1,2-Dichlorobenzene	6.2E-01 U	1.6E+00 U	6.0E-01 U	1.6E+00 U	1.5E+00 U	8.2E-03 U	9.0E-03 U	5.1E-01 U	7.8E-03 U	1.1E-01 U
1,2-Dichloroethane	2.2E+00	5.9E+00	5.1E+00	7.0E+00	5.6E+00	5.5E-03 U	6.0E-03 U	3.5E-01 U	5.2E-03 U	7.2E-02 U
1,2-Dichloropropane	5.0E-01	1.3E+00	8.9E-01	1.2E+00 U	1.2E+00 U	6.3E-03 U	7.0E-03 U	4.0E-01 U	6.0E-03 U	8.2E-02 U
1,3,5-Trimethylbenzene	5.1E-01 U	1.3E+00 U	4.9E-01 U	1.3E+00 U	1.2E+00 U	6.7E-03 U	7.0E-03 U	4.2E-01 U	6.3E-03 U	8.8E-02 U
1,3-Butadiene	2.3E-01 U	6.0E-01 U	2.2E-01 U	5.7E-01 U	5.6E-01 U	3.0E-03 U	3.0E-03 U	1.9E-01 U	2.8E-03 U	3.9E-02 U
1,3-Dichlorobenzene	6.2E-01 U	1.6E+00 U	6.0E-01 U	1.6E+00 U	1.5E+00 U	8.2E-03 U	9.0E-03 U	5.1E-01 U	7.8E-03 U	1.1E-01 U
1,4-Dichlorobenzene	6.2E-01 U	1.6E+00 U	6.0E-01 U	1.6E+00 U	1.5E+00 U	8.2E-03 U	9.0E-03 U	5.1E-01 U	7.8E-03 U	1.1E-01 U
1,4-Dioxane	1.5E+00 U	3.9E+00 U	1.4E+00 U	3.7E+00 U	3.7E+00 U	2.0E-02 U	2.3E-02 U	1.2E+00 U	1.8E-02 U	2.6E-01 U
2,2,4-Trimethylpentane	4.8E-01 U	1.3E+00 U	4.6E-01 U	1.2E+00 U	1.2E+00 U	6.4E-03 U	7.0E-03 U	4.0E-01 U	6.0E-03 U	8.3E-02 U
2-Butanone (MEK)	1.2E+00 U	3.2E+00 U	1.2E+00 U	3.0E+00 U	3.0E+00 U	1.6E-02 U	1.8E-02 U	1.0E+00 U	1.5E-02 U	2.1E-01 U
2-Hexanone	1.7E+00 U	4.4E+00 U	1.6E+00 U	4.2E+00 U	4.2E+00 U	2.2E-02 U	2.6E-02 U	1.4E+00 U	2.1E-02 U	2.9E-01 U
2-Propanol	1.0E+00 U	2.7E+00 U	9.7E-01 U	2.5E+00 U	2.5E+00 U	1.3E-02 U	1.5E-02 U	8.4E-01 U	1.3E-02 U	1.8E-01 U
3-Chloropropene	1.3E+00 U	3.4E+00 U	1.2E+00 U	3.2E+00 U	3.2E+00 U	1.7E-02 U	2.0E-02 U	1.1E+00 U	1.6E-02 U	2.2E-01 U
4-Ethyltoluene	5.1E-01 U	1.3E+00 U	4.9E-01 U	1.3E+00 U	1.2E+00 U	6.7E-03 U	7.0E-03 U	4.2E-01 U	6.3E-03 U	8.8E-02 U
4-Methyl-2-pentanone (MIBK)	4.3E-01 U	1.1E+00 U	4.0E-01 U	1.0E+00 U	1.0E+00 U	5.6E-03 U	6.0E-03 U	3.5E-01 U	5.3E-03 U	7.3E-02 U
Acetone	9.9E-01 U	6.4E+00 U	9.4E-01 U	6.1E+00 U	6.0E+00 U	1.4E-02	3.7E-02 U	8.1E-01 U	1.0E-01	4.2E-01 U
alpha-Chlorotoluene	5.4E-01 U	1.4E+00 U	2.0E+00 U	1.3E+00 U	1.3E+00 U	7.1E-03 U	8.0E-03 U	1.8E+00 U	6.7E-03 U	9.2E-02 U
Benzene	3.3E-01 U	8.7E-01 U	3.2E-01 U	8.2E-01 U	8.1E-01 U	4.4E-03 U	5.0E-03 U	2.7E-01 U	2.6E-01	8.1E-02
Bromodichloromethane	7.0E-01 U	1.8E+00 U	6.6E-01 U	1.7E+00 U	1.7E+00 U	9.1E-03 U	1.0E-02 U	5.7E-01 U	8.6E-03 U	1.2E-01 U
Bromoform	1.1E+00 U	2.8E+00 U	1.0E+00 U	2.7E+00 U	2.6E+00 U	1.4E-02 U	1.6E-02 U	8.8E-01 U	1.3E-02 U	1.8E-01 U
Bromomethane	4.0E-01 U	1.0E+01 U	3.8E-01 U	1.0E+01 U	9.9E+00 U	5.3E-03 U	6.1E-02 U	3.3E-01 U	5.0E-02 U	6.9E-01 U
Carbon disulfide	1.3E+00 U	3.4E+00 U	3.1E-01 U	3.2E+00 U	3.2E+00 U	5.8E-02	2.0E-02 U	2.7E-01 U	1.6E-02 U	2.2E-01 U
Carbon tetrachloride	6.3E+00	9.1E+00	1.1E+01	1.4E+01	1.3E+01	8.6E-03 U	9.0E-03 U	5.4E-01 U	8.1E-03 U	1.1E-01 U
Chlorobenzene	4.8E-01 U	1.2E+00 U	4.6E-01 U	1.2E+00 U	1.2E+00 U	6.3E-03 U	7.0E-03 U	3.9E-01 U	5.9E-03 U	8.2E-02 U
Chloroethane	1.1E+00 U	2.9E+00 U	1.0E+00 U	2.7E+00 U	2.7E+00 U	1.4E-02 U	1.6E-02 U	9.0E-01 U	1.4E-02 U	1.9E-01 U
Chloroform	1.7E+02	4.1E+02	3.5E+02	4.7E+02	4.1E+02	6.7E-03 U	7.0E-03 U	1.2E+00	7.5E-02	8.7E-02 U
Chloromethane	8.6E-01 U	5.6E+00 U	8.2E-01 U	5.3E+00 U	5.3E+00 U	1.1E-02 U	3.2E-02 U	7.1E-01 U	2.7E-02 U	3.7E-01 U
cis-1,2-Dichloroethene	4.1E-01 U	1.1E+00 U	3.9E-01 U	1.0E+00 U	1.0E+00 U	5.4E-03 U	6.0E-03 U	3.4E-01 U	5.1E-03 U	7.1E-02 U
cis-1,3-Dichloropropene	4.7E-01 U	1.2E+00 U	4.5E-01 U	1.2E+00 U	1.2E+00 U	6.2E-03 U	7.0E-03 U	3.9E-01 U	5.8E-03 U	8.1E-02 U
Cyclohexane	3.6E-01 U	9.3E-01 U	3.4E-01 U	8.9E-01 U	8.8E-01 U	4.7E-03 U	5.0E-03 U	2.9E-01 U	4.4E-03 U	6.1E-02 U
Dibromochloromethane	8.8E-01 U	2.3E+00 U	8.4E-01 U	2.2E+00 U	2.2E+00 U	1.2E-02 U	1.3E-02 U	7.3E-01 U	1.1E-02 U	1.5E-01 U
Dichlorodifluoromethane (Freon 12)	2.2E+00	3.7E+00	4.6E+00	5.1E+00	4.8E+00	1.8E+00	1.8E+00	3.2E+00	1.7E-02	4.2E+00
Dichlorotetrafluoroethane (Freon 114)	7.3E-01 U	1.9E+00 U	6.9E-01 U	1.8E+00 U	1.8E+00 U	9.5E-03 U	1.1E-02 U	6.0E-01 U	9.0E-03 U	1.2E-01 U

TABLE 2

ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES FROM SVE SYSTEM

Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per cubic meter (mg/m^3)

	Influent to Treatment Vessels					Effluent from Treatment Vessels				
Analyte / Sample Date	**10/4/2011**	**3/8/2012**	**4/2/2012**	**9/6/2012**	**10/4/2012**	**10/4/2011**	**3/8/2012**	**4/2/2012**	**9/6/2012**	**10/4/2012**
Ethanol	3.8E+00	2.0E+00 U	7.5E-01 U	1.9E+00 U	1.9E+00 U	1.0E-02	1.2E-02 U	6.4E-01 U	9.7E-03 U	1.3E-01 U
Ethylbenzene	7.2E-01	1.2E+00 U	4.3E-01 U	1.1E+00 U	1.1E+00 U	5.9E-03 U	6.0E-03 U	3.7E-01 U	5.6E-03 U	7.8E-02 U
Heptane	4.3E-01 U	1.1E+00 U	4.0E-01 U	1.0E+00 U	1.0E+00 U	5.6E-03 U	6.0E-03 U	3.5E-01 U	5.3E-03 U	7.3E-02 U
Hexachlorobutadiene	4.4E+00 U	1.2E+01 U	4.2E+00 U	1.1E+01 U	1.1E+01 U	5.8E-02 U	6.7E-02 U	3.6E+00 U	5.5E-02 U	7.6E-01 U
Hexane	3.7E-01 U	9.6E-01 U	3.5E-01 U	9.1E-01 U	9.0E-01 U	4.8E-03 U	5.0E-03 U	3.0E-01 U	4.5E-03 U	6.3E-02 U
Isopropylbenzene	5.1E-01 U	1.3E+00 U	4.9E-01 U	1.3E+00 U	1.2E+00 U	6.7E-03 U	7.0E-03 U	4.2E-01 U	2.6E-02	8.8E-02 U
m,p-Xylene	7.8E-01	1.2E+00 U	4.3E-01 U	1.1E+00 U	1.1E+00 U	6.0E-03	6.0E-03 U	3.7E-01 U	1.0E-02	7.8E-02 U
Methyl tert-butyl ether	3.7E-01 U	9.8E-01 U	3.6E-01 U	9.3E-01 U	9.2E-01 U	4.9E-03 U	5.0E-03 U	3.1E-01 U	4.6E-03 U	6.4E-02 U
Methylene chloride	1.1E+00	9.4E+00 U	1.4E+00	9.0E+00 U	8.8E+00 U	5.5E-03	5.4E-02 U	1.5E+00	4.5E-02 U	6.2E-01 U
n-Propylbenzene	5.1E-01 U	1.3E+00 U	4.9E-01 U	1.3E+00 U	1.2E+00 U	6.7E-03 U	7.0E-03 U	4.2E-01 U	6.3E-03 U	8.8E-02 U
o-Xylene	4.5E-01 U	1.2E+00 U	4.3E-01 U	1.1E+00 U	1.1E+00 U	5.9E-03 U	6.0E-03 U	3.7E-01 U	5.6E-03 U	7.8E-02 U
Styrene	4.4E-01 U	1.2E+00	4.2E-01 U	1.1E+00 U	1.1E+00 U	5.8E-03 U	6.0E-03 U	3.6E-01 U	5.5E-03 U	7.6E-02 U
Tetrachloroethene	1.6E+00	6.4E+00	5.7E+00	7.2E+00	2.5E+00	9.2E-03 U	1.1E-02 U	5.8E-01 U	8.8E-03 U	1.2E-01 U
Tetrahydrofuran	3.1E-01 U	8.0E-01 U	2.9E-01 U	7.6E-01 U	7.5E-01 U	4.0E-03 U	4.0E-03 U	2.5E-01 U	1.2E-02	5.3E-02 U
Toluene	3.9E-01 U	1.0E+00 U	3.7E-01 U	9.7E-01 U	9.6E-01 U	7.0E-03	5.0E-03 U	3.2E-01 U	2.0E-02	6.7E-02 U
trans-1,2-Dichloroethene	4.1E-01 U	1.1E+00 U	3.9E-01 U	1.0E+00 U	1.0E+00 U	5.4E-03 U	6.0E-03 U	3.4E-01 U	5.1E-03 U	7.1E-02 U
trans-1,3-Dichloropropene	4.7E-01 U	1.2E+00 U	4.5E-01 U	1.2E+00 U	1.2E+00 U	6.2E-03 U	7.0E-03 U	3.9E-01 U	5.8E-03 U	8.1E-02 U
Trichloroethene	3.9E+00	1.1E+01	1.0E+01	1.3E+01	8.0E+00	7.3E-03 U	8.0E-03 U	4.6E-01 U	6.9E-03 U	9.6E-02 U
Trichlorofluoromethane (Freon 11)	8.4E+01	1.2E+02 J	1.4E+02	1.7E+02	1.7E+02	7.7E-03 U	8.0E-03 U	2.8E+02	7.2E-03 U	2.8E+01
Vinyl chloride	2.6E-01 U	6.9E-01 U	2.5E-01 U	6.6E-01 U	6.5E-01 U	3.5E-03 U	4.0E-03 U	2.2E-01 U	3.3E-03 U	4.6E-02 U

Notes
1. Data qualifiers are as follows:
   -- = no data available.
   J = reported result is the estimated concentration.
   U = analyte not detected at reporting limit indicated.
2. Volatile organic compounds (VOCs) analyzed by EPA Method TO-15.

Abbreviations
EDB = ethylene dibromide
EPA = US Environmental Protection Agency
MEK = methyl ethyl ketone
MIBK = methyl isobutyl ketone

TABLE 3

ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES AT SOIL VAPOR MONITORING POINTS [1,2,3,4,5]

Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per cubic meter (mg/m^3)

	SGS-SP	SGS-SP	SGS-SP	SGS-SP	SGS-SP	SGS-SP	SGS-SP	SGS-SP	SGS-Well	SGS-Well	SGS-well	SGS-well-DUP	SGS-Well	SGS-Well-DUP
Analyte / Sample Date	**10/18/2011**	**11/3/2011**	**12/22/2011**	**1/24/2012**	**3/1/2012**	**3/12/2012**	**3/29/2012**	**4/18/2012**	**11/3/2011**	**12/22/2011**	**3/5/2012**	**3/5/2012**	**3/8/2012**	**3/8/2012**
1,1,1-Trichloroethane	3.9E-02 U	4.7E-02 U	6.5E-02	2.5E-01 U	1.6E-01	3.8E-02 U	2.0E-02 U	3.2E-02 U	9.2E-01 U	3.0E-02 U	1.3E+00 U	3.9E-01 U	1.9E+00 U	1.9E+00 U
1,1,2,2-Tetrachloroethane	4.9E-02 U	5.9E-02 U	5.5E-02 U	3.2E-01 U	1.1E-01 U	4.7E-02 U	2.4E-02 U	4.0E-02 U	1.2E+00 U	3.7E-02 U	1.6E+00 U	4.9E-01 U	2.4E+00 U	2.4E+00 U
1,1,2-Trichloroethane	3.9E-02 U	4.7E-02 U	4.4E-02 U	2.5E-01 U	9.0E-02 U	3.8E-02 U	2.0E-02 U	3.2E-02 U	9.2E-01 U	3.0E-02 U	1.3E+00 U	3.9E-01 U	1.9E+00 U	1.9E+00 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0E-01	6.8E-01	2.5E+00	4.6E+00	4.6E+00	1.2E-01	6.5E-02	9.3E-02	5.4E+00	2.5E-01	7.4E+00	7.2E+00	1.1E+01	1.1E+01
1,1-Dichloroethane	2.9E-02 U	3.5E-02 U	4.0E-02	1.9E-01 U	1.3E-01	2.8E-02 U	1.4E-02 U	2.4E-02 U	6.8E-01 U	2.2E-02 U	9.7E-01 U	2.9E-01 U	1.4E+00 U	1.4E+00 U
1,1-Dichloroethene	8.7E-02	1.1E-01	2.6E-01	3.8E-01	6.4E-01	5.8E-02	4.4E-02	5.9E-02	6.7E-01 U	2.8E-02	9.5E-01 U	8.6E-01	1.4E+00 U	1.4E+00 U
1,1-Difluoroethane	--	--	8.7E-02 U	5.0E-01 U	1.8E-01 U	7.4E-02 U	3.9E-02 U	--	--	2.0E+01 J	2.6E+00 U	7.7E-01 U	3.8E+00 U	3.7E+00 U
1,2,4-Trichlorobenzene	2.1E-01 U	2.5E-01 U	2.4E-01 U	1.4E+00 U	4.9E-01 U	2.0E-01 U	1.1E-01 U	1.7E-01 U	5.0E+00 U	1.6E-01 U	7.1E+00 U	2.1E+00 U	1.0E+01 U	1.0E+01 U
1,2,4-Trimethylbenzene	3.5E-02 U	4.2E-02 U	4.0E-02 U	2.3E-01 U	3.3E-01 U	3.4E-02 U	1.8E-02 U	2.9E-02 U	8.2E-01 U	2.7E-02 U	1.2E+00 U	1.4E+00 U	1.7E+00 U	1.7E+00 U
1,2-Dibromoethane (EDB)	5.5E-02 U	6.6E-02 U	6.2E-02 U	3.6E-01 U	1.3E-01 U	5.3E-02 U	2.8E-02 U	4.5E-02 U	1.3E+00 U	4.2E-02 U	1.8E+00 U	5.4E-01 U	2.7E+00 U	2.6E+00 U
1,2-Dichlorobenzene	4.3E-02 U	5.1E-02 U	4.8E-02 U	2.8E-01 U	1.0E-01 U	4.1E-02 U	2.2E-02 U	3.5E-02 U	1.0E+00 U	3.3E-02 U	1.4E+00 U	4.3E-01 U	2.1E+00 U	2.1E+00 U
1,2-Dichloroethane	5.9E-02	6.4E-02	1.1E-01	1.9E-01 U	3.1E-01	7.2E-02	5.0E-02	5.7E-02	3.0E+00	1.0E-01	3.0E+00	2.5E+00	5.4E+00	5.5E+00
1,2-Dichloropropane	3.3E-02 U	4.0E-02 U	3.7E-02 U	2.1E-01 U	1.0E-01	3.2E-02 U	1.6E-02 U	2.7E-02 U	7.8E-01 U	2.5E-02 U	1.1E+00 U	4.6E-01	1.6E+00 U	1.6E+00 U
1,3,5-Trimethylbenzene	3.5E-02 U	4.2E-02 U	4.0E-02 U	2.3E-01 U	8.2E-02 U	3.4E-02 U	1.8E-02 U	2.9E-02 U	8.2E-01 U	2.7E-02 U	1.2E+00 U	3.5E-01 U	1.7E+00 U	1.7E+00 U
1,3-Butadiene	1.6E-02 U	1.9E-02 U	1.8E-02 U	1.0E-01 U	3.7E-02 U	1.5E-02 U	7.9E-03 U	1.3E-02 U	3.7E-01 U	1.2E-02 U	5.3E-01 U	1.6E-01 U	7.8E-01 U	7.6E-01 U
1,3-Dichlorobenzene	4.3E-02 U	5.1E-02 U	4.8E-02 U	2.8E-01 U	1.0E-01 U	4.1E-02 U	2.2E-02 U	3.5E-02 U	1.0E+00 U	3.3E-02 U	1.4E+00 U	4.3E-01 U	2.1E+00 U	2.1E+00 U
1,4-Dichlorobenzene	4.3E-02 U	5.1E-02 U	4.8E-02 U	2.8E-01 U	1.0E-01 U	4.1E-02 U	2.2E-02 U	3.5E-02 U	1.0E+00 U	3.3E-02 U	1.4E+00 U	4.3E-01 U	2.1E+00 U	2.1E+00 U
1,4-Dioxane	1.0E-01 U	1.2E-01 U	1.2E-01 U	6.7E-01 U	2.4E-01 U	9.9E-02 U	5.2E-02 U	8.4E-02 U	2.4E+00 U	7.8E-02 U	3.4E+00 U	1.0E+00 U	5.1E+00 U	5.0E+00 U
2,2,4-Trimethylpentane	3.3E-02 U	4.0E-02 U	3.8E-02 U	2.2E-01 U	7.8E-02 U	3.2E-02 U	1.7E-02 U	2.7E-02 U	7.8E-01 U	2.5E-02 U	1.1E+00 U	1.0E+00	1.6E+00 U	1.6E+00 U
2-Butanone (MEK)	8.4E-02 U	1.0E-01 U	9.5E-02 U	5.5E-01 U	2.0E-01 U	8.1E-02 U	4.2E-02 U	6.9E-02 U	2.0E+00 U	6.4E-02 U	2.8E+00 U	8.4E-01 U	4.2E+00 U	4.0E+00 U
2-Hexanone	1.2E-01 U	1.4E-01 U	1.3E-01 U	7.6E-01 U	2.7E-01 U	1.1E-01 U	5.9E-02 U	9.6E-02 U	2.8E+00 U	8.9E-02 U	3.9E+00 U	1.2E+00 U	5.8E+00 U	5.6E+00 U
2-Propanol	7.0E-02 U	8.4E-02 U	7.9E-02 U	4.6E-01 U	1.6E-01 U	6.8E-02 U	3.5E-02 U	5.8E-02 U	1.6E+00 U	5.4E-02 U	3.2E+00	7.0E-01 U	4.6E+00	4.7E+00
3-Chloropropene	9.0E-02 U	1.1E-01 U	1.0E-01 U	5.8E-01 U	2.1E-01 U	8.6E-02 U	4.5E-02 U	7.3E-02 U	2.1E+00 U	6.8E-02 U	3.0E+00 U	8.9E-01 U	4.4E+00 U	4.3E+00 U
4-Ethyltoluene	3.5E-02 U	4.2E-02 U	4.0E-02 U	2.3E-01 U	8.2E-02 U	3.4E-02 U	1.8E-02 U	2.9E-02 U	8.2E-01 U	2.7E-02 U	1.2E+00 U	3.5E-01 U	1.7E+00 U	1.7E+00 U
4-Methyl-2-pentanone (MIBK)	2.9E-02 U	3.5E-02 U	3.3E-02 U	1.9E-01 U	6.8E-02 U	2.8E-02 U	1.5E-02	2.4E-02 U	6.9E-01 U	2.2E-02 U	9.8E-01 U	2.9E-01 U	1.4E+00 U	1.4E+00 U
Acetone	6.8E-02 U	1.3E-01	7.7E-02 J	4.4E-01 U	1.6E-01 U	1.6E-01 U	8.5E-02 U	1.4E-01 U	1.6E+00 U	5.2E-02 U	5.7E+00 U	6.7E-01 U	8.4E+00 U	8.2E+00 U
alpha-Chlorotoluene	3.7E-02 U	4.4E-02 U	4.2E-02 U	2.4E-01 U	3.4E-01 U	3.6E-02 U	1.8E-02 U	3.0E-02 U	8.7E-01 U	2.8E-02 U	1.2E+00 U	1.5E+00 U	1.8E+00 U	1.8E+00 U
Benzene	2.3E-02 U	2.7E-02 U	2.6E-02 U	1.5E-01 U	5.3E-02 U	2.2E-02 U	1.1E-02 U	1.9E-02 U	5.4E-01 U	1.7E-02 U	7.7E-01 U	2.3E-01 U	1.1E+00 U	1.1E+00 U
Bromodichloromethane	4.8E-02 U	5.7E-02 U	5.4E-02 U	3.1E-01 U	1.1E-01 U	4.6E-02 U	2.4E-02 U	3.9E-02 U	1.1E+00 U	3.6E-02 U	1.6E+00 U	4.8E-01 U	2.4E+00 U	2.3E+00 U
Bromoform	7.4E-02 U	8.8E-02 U	8.3E-02 U	4.8E-01 U	6.9E-01 U	7.1E-02 U	3.7E-02 U	6.0E-02 U	1.7E+00 U	5.6E-02 U	2.5E+00 U	2.9E+00 U	3.6E+00 U	3.6E+00 U
Bromomethane	2.8E-02 U	3.3E-02 U	3.1E-02 U	1.8E-01 U	6.4E-02 U	2.7E-01 U	1.4E-01 U	2.3E-01 U	6.5E-01 U	2.1E-02 U	9.3E+00 U	2.8E-01 U	1.4E+01 U	1.3E+01 U
Carbon disulfide	4.0E-01	2.5E-01	8.4E-02	7.8E-01	1.9E-01	2.3E-01 J	2.0E-01	3.6E-01	2.1E+00 U	6.8E-02 U	3.0E+00 U	2.2E-01 U	4.4E+00 U	4.3E+00 U
Carbon tetrachloride	1.6E-01	4.9E-01	1.8E+00	3.1E+00	4.1E+00	1.4E-01	1.2E-01	2.2E-01	5.9E+00	2.3E-01	7.0E+00	7.0E+00	8.3E+00	8.5E+00
Chlorobenzene	3.3E-02 U	3.9E-02 U	3.7E-02 U	2.1E-01 U	7.6E-02 U	3.2E-02 U	1.6E-02 U	2.7E-02 U	7.7E-01 U	2.5E-02 U	1.1E+00 U	3.3E-01 U	1.6E+00 U	1.6E+00 U
Chloroethane	7.5E-02 U	9.0E-02 U	8.5E-02 U	4.9E-01 U	1.8E-01 U	7.3E-02 U	3.8E-02 U	6.2E-02 U	1.8E+00 U	5.8E-02 U	2.5E+00 U	7.5E-01 U	3.7E+00 U	3.6E+00 U
Chloroform	1.2E+01	1.0E+01	2.4E+01	4.1E+01	6.7E+01	1.0E+01	5.8E+00	1.0E+01	2.1E+02	8.0E+00	2.1E+02	2.0E+02	3.8E+02	3.9E+02
Chloromethane	1.6E-01	1.0E-01	6.6E-02 U	3.8E-01 U	1.4E-01 U	1.4E-01 U	7.4E-02 U	1.2E-01 U	1.4E+00 U	4.5E-02 U	5.0E+00 U	5.9E-01 U	7.3E+00 U	7.1E+00 U
cis-1,2-Dichloroethene	2.8E-02 U	3.4E-02 U	3.2E-02 U	1.8E-01 U	6.6E-02 U	2.7E-02 U	1.4E-02 U	2.3E-02 U	6.7E-01 U	2.2E-02 U	9.5E-01 U	2.8E-01 U	1.4E+00 U	1.4E+00 U
cis-1,3-Dichloropropene	3.2E-02 U	3.9E-02 U	3.6E-02 U	2.1E-01 U	7.5E-02 U	3.1E-02 U	1.6E-02 U	2.6E-02 U	7.6E-01 U	2.5E-02 U	1.1E+00 U	3.2E-01 U	1.6E+00 U	1.6E+00 U
Cyclohexane	2.5E-02 U	2.9E-02 U	4.6E-02	1.6E-01 U	1.1E-01	2.4E-02 U	1.2E-02 U	2.0E-02 U	5.8E-01 U	1.9E-02 U	8.3E-01 U	2.4E-01 U	1.2E+00 U	1.2E+00 U
Dibromochloromethane	6.1E-02 U	7.3E-02 U	6.8E-02 U	3.9E-01 U	1.4E-01 U	5.9E-02 U	3.0E-02 U	5.0E-02 U	1.4E+00 U	4.6E-02 U	2.0E+00 U	6.0E-01 U	3.0E+00 U	2.9E+00 U
Dichlorodifluoromethane (Freon 12)	3.5E-02 U	2.2E-01	1.1E+00	2.2E+00 J	2.2E+00	3.4E-02 U	1.8E-02 U	2.9E-02 U	2.1E+00	2.4E-01	2.8E+00	3.6E+00	3.2E+00	3.7E+00
Dichlorotetrafluoroethane (Freon 114)	5.0E-02 U	6.0E-02 U	5.6E-02 U	3.2E-01 U	1.2E-01 U	4.8E-02 U	2.5E-02 U	4.1E-02 U	1.2E+00 U	3.8E-02 U	1.7E+00 U	5.0E-01 U	2.5E+00 U	2.4E+00 U

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Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per cubic meter (mg/m^3)

Analyte / Sample Date	SGS-SP 10/18/2011	SGS-SP 11/3/2011	SGS-SP 12/22/2011	SGS-SP 1/24/2012	SGS-SP 3/1/2012	SGS-SP 3/12/2012	SGS-SP 3/29/2012	SGS-SP 4/18/2012	SGS-Well 11/3/2011	SGS-Well 12/22/2011	SGS-well 3/5/2012	SGS-well-DUP 3/5/2012	SGS-Well 3/8/2012	SGS-Well-DUP 3/8/2012
Ethanol	5.4E-02 U	6.4E-02 U	1.4E-01	3.5E-01 U	1.2E-01 U	5.2E-02 U	2.7E-02 U	4.4E-02 U	1.3E+00 U	4.1E-02 U	1.8E+00 U	5.4E-01 U	2.6E+00 U	2.6E+00 U
Ethylbenzene	3.1E-02 U	3.7E-02 U	3.5E-02 U	2.0E-01 U	7.2E-02 U	3.0E-02 U	1.6E-02 U	2.5E-02 U	7.3E-01 U	2.4E-02 U	1.0E+00 U	3.1E-01 U	1.5E+00 U	1.5E+00 U
Heptane	2.9E-02 U	3.5E-02 U	3.3E-02 U	1.9E-01 U	6.8E-02 U	2.8E-02 U	1.5E-02 U	2.4E-02 U	6.9E-01 U	2.2E-02 U	9.8E-01 U	3.8E-01	1.4E+00 U	1.4E+00 U
Hexachlorobutadiene	3.0E-01 U	3.6E-01 U	3.4E-01 U	2.0E+00 U	7.1E-01 U	2.9E-01 U	1.5E-01 U	2.5E-01 U	7.2E+00 U	2.3E-01 U	1.0E+01 U	3.0E+00 U	1.5E+01 U	1.5E+01 U
Hexane	2.5E-02 U	3.0E-02 U	2.8E-02 U	1.6E-01 U	5.8E-02 U	2.4E-02 U	1.3E-02 U	2.1E-02 U	5.9E-01 U	1.9E-02 U	8.4E-01 U	1.0E+00	1.2E+00 U	1.2E+00 U
Isopropylbenzene	3.5E-02 U	4.2E-02 U	4.0E-02 U	2.3E-01 U	8.2E-02 U	3.4E-02 U	1.8E-02 U	2.9E-02 U	8.2E-01 U	2.7E-02 U	1.2E+00 U	3.5E-01 U	1.7E+00 U	1.7E+00 U
m,p-Xylene	3.1E-02 U	3.7E-02 U	3.5E-02 U	2.0E-01 U	7.2E-02 U	4.4E-02	2.1E-02	2.5E-02 U	7.3E-01 U	2.4E-02 U	1.0E+00 U	3.1E-01 U	1.5E+00 U	1.5E+00 U
Methyl tert-butyl ether	2.6E-02 U	3.1E-02 U	2.9E-02 U	1.7E-01 U	6.0E-02 U	2.5E-02 U	1.3E-02 U	2.1E-02 U	6.0E-01 U	2.0E-02 U	8.6E-01 U	2.6E-01 U	1.3E+00 U	1.2E+00 U
Methylene chloride	2.9E-02	3.0E-02 U	7.1E-02	3.9E-01	2.3E-01	2.4E-01 U	1.2E-01 U	2.0E-01 U	8.7E-01	4.1E-02	8.3E+00 U	1.1E+00	1.2E+01 U	1.2E+01 U
n-Propylbenzene	3.5E-02 U	4.2E-02 U	4.0E-02 U	2.3E-01 U	8.2E-02 U	3.4E-02 U	1.8E-02 U	2.9E-02 U	8.2E-01 U	2.7E-02 U	1.2E+00 U	3.5E-01 U	1.7E+00 U	1.7E+00 U
o-Xylene	3.1E-02 U	3.7E-02 U	3.5E-02 U	2.0E-01 U	7.2E-02 U	3.0E-02 U	1.6E-02 U	2.5E-02 U	7.3E-01 U	2.4E-02 U	1.0E+00 U	3.1E-01 U	1.5E+00 U	1.5E+00 U
Styrene	3.0E-02 U	3.6E-02 U	3.4E-02 U	2.0E-01 U	7.1E-02 U	2.9E-02 U	1.5E-02 U	2.5E-02 U	7.2E-01 U	2.3E-02 U	1.0E+00 U	3.0E-01 U	1.5E+00 U	1.5E+00 U
Tetrachloroethene	2.2E-01	2.3E-01	4.3E-01	4.4E-01	1.1E+00	1.4E-01	1.3E-01	2.9E-01	2.8E+00	1.1E-01	1.6E+00 U	1.3E+00	5.3E+00	5.7E+00
Tetrahydrofuran	2.1E-02 U	2.5E-02 U	2.4E-02 U	1.4E-01 U	4.9E-02 U	2.0E-02 U	1.0E-02 U	1.7E-02 U	5.0E-01 U	1.6E-02 U	7.1E-01 U	2.1E-01 U	1.0E+00 U	1.0E+00 U
Toluene	2.7E-02 U	3.2E-02 U	3.0E-02 U	1.7E-01 U	6.2E-02 U	8.6E-02	3.9E-02	2.2E-02 U	6.3E-01 U	2.0E-02 U	9.0E-01 U	2.7E-01 U	1.3E+00 U	1.3E+00 U
trans-1,2-Dichloroethene	2.8E-02 U	3.4E-02 U	3.2E-02 U	1.8E-01 U	6.6E-02 U	2.7E-02 U	1.4E-02 U	2.3E-02 U	6.7E-01 U	2.2E-02 U	9.5E-01 U	2.8E-01 U	1.4E+00 U	1.4E+00 U
trans-1,3-Dichloropropene	3.2E-02 U	3.9E-02 U	3.6E-02 U	2.1E-01 U	7.5E-02 U	3.1E-02 U	1.6E-02 U	2.6E-02 U	7.6E-01 U	2.5E-02 U	1.1E+00 U	3.2E-01 U	1.6E+00 U	1.6E+00 U
Trichloroethene	3.6E-01	3.7E-01	8.5E-01	1.0E+00	2.3E+00	2.6E-01	2.4E-01	4.6E-01	4.9E+00	1.8E-01	4.8E+00	4.0E+00	1.0E+01	9.9E+00
Trichlorofluoromethane (Freon 11)	1.9E+00	8.9E+00	3.3E+01	7.1E+01 J	6.2E+01	1.5E+00	1.0E+00	1.5E+00	7.7E+01	4.7E+00	9.9E+01	1.1E+02	1.1E+02 J	1.2E+02 J
Vinyl chloride	1.8E-02 U	2.2E-02 U	2.0E-02 U	1.2E-01 U	4.2E-02 U	1.8E-02 U	9.2E-03 U	1.5E-02 U	4.3E-01 U	1.4E-02 U	6.1E-01 U	1.8E-01 U	9.0E-01 U	8.8E-01 U

TABLE 3

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Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per cubic meter (mg/m^3)

	SGS-Well	SGS-WELL	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-MP	SGD-MP	SGD-MP-Dup
Analyte / Sample Date	**3/12/2012**	**3/29/2012**	**10/18/2011**	**11/3/2011**	**11/22/2011**	**12/22/2011**	**1/24/2012**	**3/1/2012**	**3/12/2012**	**3/29/2012**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**11/3/2011**	**11/3/2011**
1,1,1-Trichloroethane	1.1E+00 U	1.2E+00 U	8.9E-01 U	8.8E-01 U	9.2E-01 U	6.4E-01 U	1.5E+00 U	5.4E-01 U	9.5E-01 U	3.7E-01 U	5.3E-01 U	1.2E+00 U	4.5E-01 U	8.9E-01 U	8.8E-01 U
1,1,2,2-Tetrachloroethane	1.3E+00 U	1.5E+00 U	1.1E+00 U	1.1E+00 U	1.2E+00 U	8.0E-01 U	1.9E+00 U	6.8E-01 U	1.2E+00 U	4.7E-01 U	6.7E-01 U	1.5E+00 U	5.7E-01 U	1.1E+00 U	1.1E+00 U
1,1,2-Trichloroethane	1.1E+00 U	1.2E+00 U	8.9E-01 U	8.8E-01 U	9.2E-01 U	6.4E-01 U	1.5E+00 U	5.4E-01 U	9.5E-01 U	3.7E-01 U	5.3E-01 U	1.2E+00 U	4.5E-01 U	8.9E-01 U	8.8E-01 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	9.6E+00	9.9E+00	1.2E+00	2.1E+00	3.1E+00	3.7E+00	6.3E+00	4.3E+00	1.3E+00 U	1.2E+00	1.8E+00	2.4E+00	5.0E+00	1.2E+01	1.3E+01
1,1-Dichloroethane	7.9E-01 U	9.1E-01 U	6.6E-01 U	6.5E-01 U	6.8E-01 U	4.7E-01 U	1.1E+00 U	4.0E-01 U	7.1E-01 U	2.8E-01 U	4.0E-01 U	8.7E-01 U	3.4E-01 U	6.6E-01 U	6.5E-01 U
1,1-Dichloroethene	9.5E-01 J	8.9E-01	6.5E-01 U	6.4E-01 U	6.7E-01 U	4.6E-01 U	1.1E+00 U	3.9E-01 U	6.9E-01 U	2.7E-01 U	3.9E-01 U	8.5E-01 U	4.3E-01	6.6E-01	7.3E-01
1,1-Difluoroethane	2.1E+00 U	2.4E+00 U	--	--	1.8E+00 U	1.3E+00 U	3.0E+00 U	1.1E+00 U	1.9E+00 U	7.4E-01 U	--	--	--	--	--
1,2,4-Trichlorobenzene	5.8E+00 U	6.6E+00 U	4.8E+00 U	4.8E+00 U	5.0E+00 U	3.5E+00 U	8.4E+00 U	2.9E+00 U	5.2E+00 U	2.0E+00 U	2.9E+00 U	6.4E+00 U	2.5E+00 U	4.9E+00 U	4.8E+00 U
1,2,4-Trimethylbenzene	9.6E-01 U	1.1E+00 U	8.0E-01 U	7.9E-01 U	8.2E-01 U	5.8E-01 U	1.4E+00 U	1.9E+00 U	8.6E-01 U	3.4E-01 U	4.8E-01 U	1.0E+00 U	4.1E-01 U	8.1E-01 U	7.9E-01 U
1,2-Dibromoethane (EDB)	1.5E+00 U	1.7E+00 U	1.2E+00 U	1.2E+00 U	1.3E+00 U	9.0E-01 U	2.2E+00 U	7.6E-01 U	1.3E+00 U	5.3E-01 U	7.5E-01 U	1.6E+00 U	6.4E-01 U	1.3E+00 U	1.2E+00 U
1,2-Dichlorobenzene	1.2E+00 U	1.3E+00 U	9.8E-01 U	9.7E-01 U	1.0E+00 U	7.0E-01 U	1.7E+00 U	6.0E-01 U	1.0E+00 U	4.1E-01 U	5.9E-01 U	1.3E+00 U	5.0E-01 U	9.9E-01 U	9.9E-01 U
1,2-Dichloroethane	2.8E+00	3.7E+00	6.6E-01 U	6.5E-01 U	6.8E-01 U	4.7E-01 U	1.1E+00 U	4.0E-01 U	7.1E-01 U	2.8E-01 U	4.0E-01 U	8.7E-01 U	3.4E-01 U	6.6E-01 U	6.5E-01 U
1,2-Dichloropropane	9.0E-01 U	1.0E+00 U	7.5E-01 U	7.4E-01 U	7.8E-01 U	5.4E-01 U	1.3E+00 U	4.6E-01 U	8.1E-01 U	3.2E-01 U	4.5E-01 U	9.9E-01 U	3.8E-01 U	7.6E-01 U	7.4E-01 U
1,3,5-Trimethylbenzene	9.6E-01 U	1.1E+00 U	8.0E-01 U	7.9E-01 U	8.2E-01 U	5.8E-01 U	1.4E+00 U	4.9E-01 U	8.6E-01 U	3.4E-01 U	4.8E-01 U	1.0E+00 U	4.1E-01 U	8.1E-01 U	7.9E-01 U
1,3-Butadiene	4.3E-01 U	5.0E-01 U	3.6E-01 U	3.6E-01 U	3.7E-01 U	2.6E-01 U	6.2E-01 U	2.2E-01 U	3.9E-01 U	1.5E-01 U	2.2E-01 U	4.8E-01 U	1.8E-01 U	3.6E-01 U	3.6E-01 U
1,3-Dichlorobenzene	1.2E+00 U	1.3E+00 U	9.8E-01 U	9.7E-01 U	1.0E+00 U	7.0E-01 U	1.7E+00 U	6.0E-01 U	1.0E+00 U	4.1E-01 U	5.9E-01 U	1.3E+00 U	5.0E-01 U	9.9E-01 U	9.7E-01 U
1,4-Dichlorobenzene	1.2E+00 U	1.3E+00 U	9.8E-01 U	9.7E-01 U	1.0E+00 U	7.0E-01 U	1.7E+00 U	6.0E-01 U	1.0E+00 U	4.1E-01 U	5.9E-01 U	1.3E+00 U	5.0E-01 U	9.9E-01 U	9.7E-01 U
1,4-Dioxane	2.8E+00 U	3.2E+00 U	2.3E+00 U	2.3E+00 U	2.4E+00 U	1.7E+00 U	4.0E+00 U	1.4E+00 U	2.5E+00 U	9.9E-01 U	1.4E+00 U	3.1E+00 U	1.2E+00 U	2.4E+00 U	2.3E+00 U
2,2,4-Trimethylpentane	9.1E-01 U	1.0E+00 U	7.6E-01 U	7.5E-01 U	7.8E-01 U	5.5E-01 U	1.3E+00 U	4.6E-01 U	8.2E-01 U	3.2E-01 U	4.6E-01 U	1.0E+00 U	3.9E-01 U	7.7E-01 U	7.5E-01 U
2-Butanone (MEK)	2.3E+00 U	2.6E+00 U	1.9E+00 U	1.9E+00 U	2.0E+00 U	1.4E+00 U	3.3E+00 U	1.2E+00 U	2.1E+00 U	8.1E-01 U	1.2E+00 U	2.5E+00 U	9.8E-01 U	1.9E+00 U	1.9E+00 U
2-Hexanone	3.2E+00 U	3.7E+00 U	2.7E+00 U	2.6E+00 U	2.8E+00 U	1.9E+00 U	4.6E+00 U	1.6E+00 U	2.9E+00 U	1.1E+00 U	1.6E+00 U	3.5E+00 U	1.4E+00 U	2.7E+00 U	2.6E+00 U
2-Propanol	1.9E+00 U	2.2E+00 U	1.6E+00 U	1.6E+00 U	1.6E+00 U	1.2E+00 U	2.8E+00 U	9.7E-01 U	1.9E+00	6.7E-01 U	9.6E-01 U	2.1E+00 U	8.2E-01 U	1.6E+00 U	1.6E+00 U
3-Chloropropene	2.4E+00 U	2.8E+00 U	2.0E+00 U	2.0E+00 U	2.1E+00 U	1.5E+00 U	3.5E+00 U	1.2E+00 U	2.2E+00 U	8.6E-01 U	1.2E+00 U	2.7E+00 U	1.0E+00 U	2.0E+00 U	2.0E+00 U
4-Ethyltoluene	9.6E-01 U	1.1E+00 U	8.0E-01 U	7.9E-01 U	8.2E-01 U	5.8E-01 U	1.4E+00 U	4.9E-01 U	8.6E-01 U	3.4E-01 U	4.8E-01 U	1.0E+00 U	4.1E-01 U	8.1E-01 U	7.9E-01 U
4-Methyl-2-pentanone (MIBK)	8.0E-01 U	9.2E-01 U	6.7E-01 U	6.6E-01 U	6.9E-01 U	4.8E-01 U	1.2E+00 U	4.0E-01 U	7.2E-01 U	2.8E-01 U	4.0E-01 U	8.8E-01 U	3.4E-01 U	6.7E-01 U	6.6E-01 U
Acetone	4.6E+00 U	5.3E+00 U	1.5E+00 U	1.5E+00 U	1.6E+00 U	2.0E+00	2.7E+00 U	9.4E-01 U	4.2E+00 U	1.6E+00 U	2.3E+00 U	2.0E+00 U	7.9E-01 U	1.6E+00 U	1.5E+00 U
alpha-Chlorotoluene	1.0E+00 U	1.2E+00 U	8.4E-01 U	8.3E-01 U	8.7E-01 U	6.0E-01 U	1.4E+00 U	2.0E+00 U	9.0E-01 U	3.5E-01 U	5.1E-01 U	1.1E+00 U	4.3E-01 U	8.5E-01 U	8.3E-01 U
Benzene	6.2E-01 U	7.2E-01 U	5.2E-01 U	5.1E-01 U	5.4E-01 U	3.7E-01 U	9.0E-01 U	3.2E-01 U	5.6E-01 U	2.2E-01 U	3.1E-01 U	6.9E-01 U	2.6E-01 U	5.2E-01 U	5.1E-01 U
Bromodichloromethane	1.3E+00 U	1.5E+00 U	1.1E+00 U	1.1E+00 U	1.1E+00 U	7.8E-01 U	1.9E+00 U	6.6E-01 U	1.2E+00 U	4.6E-01 U	6.6E-01 U	1.4E+00 U	5.6E-01 U	1.1E+00 U	1.1E+00 U
Bromoform	2.0E+00 U	2.3E+00 U	1.7E+00 U	1.7E+00 U	1.7E+00 U	1.2E+00 U	2.9E+00 U	4.1E+00 U	1.8E+00 U	7.1E-01 U	1.0E+00 U	2.2E+00 U	8.6E-01 U	1.7E+00 U	1.7E+00 U
Bromomethane	7.6E+00 U	8.7E+00 U	6.3E-01 U	6.2E-01 U	6.5E-01 U	4.5E-01 U	1.1E+00 U	3.8E-01 U	6.8E+00 U	2.7E+00 U	3.8E+00 U	8.3E-01 U	3.2E-01 U	6.4E-01 U	6.2E-01 U
Carbon disulfide	2.4E+00 U	2.8E+00 U	2.0E+00 U	2.0E+00 U	2.1E+00 U	3.6E-01 U	3.5E+00 U	3.1E-01 U	2.2E+00 U	8.4E-01 J	1.2E+00 U	6.7E-01 U	1.2E+00	2.0E+00 U	2.0E+00 U
Carbon tetrachloride	5.4E+00	1.0E+01	2.2E+00	4.2E+00	5.2E+00	6.7E+00	1.1E+01	8.1E+00	2.3E+00	2.5E+00	3.4E+00	4.0E+00	1.2E+00	1.3E+01	1.4E+01
Chlorobenzene	9.0E-01 U	1.0E+00 U	7.5E-01 U	7.4E-01 U	7.7E-01 U	5.4E-01 U	1.3E+00 U	4.6E-01 U	8.0E-01 U	3.2E-01 U	4.5E-01 U	9.9E-01 U	3.8E-01 U	7.6E-01 U	7.4E-01 U
Chloroethane	2.0E+00 U	2.4E+00 U	1.7E+00 U	1.7E+00 U	1.8E+00 U	1.2E+00 U	3.0E+00 U	1.0E+00 U	1.8E+00 U	7.2E-01 U	1.0E+00 U	2.3E+00 U	8.8E-01 U	1.7E+00 U	1.7E+00 U
Chloroform	2.5E+02	2.8E+02	1.4E+02	2.0E+02	2.1E+02	2.6E+02	3.6E+02	3.0E+02	1.8E+02	1.1E+02	1.5E+02	1.5E+02	5.3E+01	1.8E+02	2.0E+02
Chloromethane	4.0E+00 U	4.6E+00 U	1.3E+00 U	1.3E+00 U	1.4E+00 U	9.7E-01 U	2.3E+00 U	8.2E-01 U	3.6E+00 U	1.4E+00 U	2.0E+00 U	1.8E+00 U	5.6E+00	1.4E+00 U	1.3E+00 U
cis-1,2-Dichloroethene	7.7E-01 U	8.9E-01 U	6.5E-01 U	6.4E-01 U	6.7E-01 U	4.6E-01 U	1.1E+00 U	3.9E-01 U	6.9E-01 U	2.7E-01 U	3.9E-01 U	8.5E-01 U	3.3E-01 U	6.5E-01 U	7.3E-01 U
cis-1,3-Dichloropropene	8.8E-01 U	1.0E+00 U	7.4E-01 U	7.3E-01 U	7.6E-01 U	5.3E-01 U	1.3E+00 U	4.5E-01 U	7.9E-01 U	3.1E-01 U	4.4E-01 U	9.8E-01 U	3.8E-01 U	7.4E-01 U	7.4E-01 U
Cyclohexane	6.7E-01 U	7.7E-01 U	5.6E-01 U	5.5E-01 U	5.8E-01 U	4.0E-01 U	9.7E-01 U	8.2E-01	6.0E-01 U	2.4E-01 U	3.4E-01 U	7.4E-01 U	2.8E-01 U	5.6E-01 U	5.5E-01 U
Dibromochloromethane	1.6E+00 U	1.9E+00 U	1.4E+00 U	1.4E+00 U	1.4E+00 U	1.0E+00 U	2.4E+00 U	8.4E-01 U	1.5E+00 U	5.8E-01 U	8.3E-01 U	1.8E+00 U	7.1E-01 U	1.4E+00 U	1.4E+00 U
Dichlorodifluoromethane (Freon 12)	2.9E+00	3.4E+00	2.2E+00	3.4E+00	4.4E+00	6.1E+00	1.1E+01 J	6.4E+00	2.2E+00	1.7E+00	2.4E+00	4.0E+00	1.2E+01	1.2E+01	1.2E+01
Dichlorotetrafluoroethane (Freon 114)	1.4E+00 U	1.6E+00 U	1.1E+00 U	1.1E+00 U	1.2E+00 U	8.2E-01 U	2.0E+00 U	6.9E-01 U	1.2E+00 U	4.8E-01 U	6.8E-01 U	1.5E+00 U	5.8E-01 U	1.1E+00 U	1.1E+00 U

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	SGS-Well	SGS-WELL	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-SP	SGD-MP	SGD-MP	SGD-MP-Dup
Analyte / Sample Date	**3/12/2012**	**3/29/2012**	**10/18/2011**	**11/3/2011**	**11/22/2011**	**12/22/2011**	**1/24/2012**	**3/1/2012**	**3/12/2012**	**3/29/2012**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**11/3/2011**	**11/3/2011**
Ethanol	1.5E+00 U	1.7E+00 U	1.2E+00 U	1.2E+00 U	1.3E+00 U	8.8E-01 U	2.1E+00 U	7.5E-01 U	1.3E+00 U	5.2E-01 U	7.4E-01 U	1.6E+00 U	6.2E-01 U	1.2E+00 U	1.2E+00 U
Ethylbenzene	8.4E-01 U	9.7E-01 U	7.1E-01 U	7.0E-01 U	7.3E-01 U	5.1E-01 U	1.2E+00 U	4.3E-01 U	7.6E-01 U	3.0E-01 U	4.2E-01 U	9.3E-01 U	3.6E-01 U	7.1E-01 U	7.0E-01 U
Heptane	8.0E-01 U	9.2E-01 U	6.7E-01 U	6.6E-01 U	6.9E-01 U	4.8E-01 U	1.2E+00 U	7.0E-01	7.2E-01 U	2.8E-01 U	4.0E-01 U	8.8E-01 U	3.4E-01 U	6.7E-01 U	6.6E-01 U
Hexachlorobutadiene	8.3E+00 U	9.6E+00 U	7.0E+00 U	6.9E+00 U	7.2E+00 U	5.0E+00 U	1.2E+01 U	4.2E+00 U	7.5E+00 U	2.9E+00 U	4.2E+00 U	9.2E+00 U	3.5E+00 U	7.0E+00 U	6.9E+00 U
Hexane	6.8E-01 U	7.9E-01 U	5.7E-01 U	5.7E-01 U	5.9E-01 U	4.1E-01 U	9.9E-01 U	1.2E+00	6.2E-01 U	2.4E-01 U	3.4E-01 U	7.6E-01 U	2.9E-01 U	5.8E-01 U	5.7E-01 U
Isopropylbenzene	9.6E-01 U	1.1E+00 U	8.0E-01 U	7.9E-01 U	8.2E-01 U	5.8E-01 U	1.4E+00 U	4.9E-01 U	8.6E-01 U	3.4E-01 U	4.8E-01 U	1.0E+00 U	4.1E-01 U	8.1E-01 U	7.9E-01 U
m,p-Xylene	8.4E-01 U	9.7E-01 U	7.1E-01 U	7.0E-01 U	7.3E-01 U	5.1E-01 U	1.2E+00 U	4.3E-01 U	7.6E-01 U	3.0E-01 U	4.2E-01 U	9.3E-01 U	3.6E-01 U	7.1E-01 U	7.0E-01 U
Methyl tert-butyl ether	7.0E-01 U	8.1E-01 U	5.9E-01 U	5.8E-01 U	6.0E-01 U	4.2E-01 U	1.0E+00 U	3.6E-01 U	6.3E-01 U	2.5E-01 U	3.5E-01 U	7.8E-01 U	3.0E-01 U	5.9E-01 U	5.8E-01 U
Methylene chloride	6.8E+00 U	7.8E+00 U	5.7E-01 U	5.6E-01 U	5.8E-01 U	4.1E-01 U	1.2E+00	6.5E-01	6.1E+00 U	2.4E+00 U	3.4E+00 U	7.5E-01 U	5.6E-01	9.3E-01	9.6E-01
n-Propylbenzene	9.6E-01 U	1.1E+00 U	8.0E-01 U	7.9E-01 U	8.2E-01 U	5.8E-01 U	1.4E+00 U	4.9E-01 U	8.6E-01 U	3.4E-01 U	4.8E-01 U	1.0E+00 U	4.1E-01 U	8.1E-01 U	7.9E-01 U
o-Xylene	8.4E-01 U	9.7E-01 U	7.1E-01 U	7.0E-01 U	7.3E-01 U	5.1E-01 U	1.2E+00 U	4.3E-01 U	7.6E-01 U	3.0E-01 U	4.2E-01 U	9.3E-01 U	3.6E-01 U	7.1E-01 U	7.0E-01 U
Styrene	8.3E-01 U	1.1E+00	6.9E-01 U	6.8E-01 U	7.2E-01 U	5.0E-01 U	1.2E+00 U	4.2E-01 U	7.4E-01 U	3.8E-01	4.2E-01 U	9.2E-01 U	3.5E-01 U	7.0E-01 U	6.8E-01 U
Tetrachloroethene	1.8E+00	2.4E+00	1.1E+00 U	1.2E+00	1.1E+00 U	1.2E+00	4.5E+00	1.5E+00	1.2E+00 U	6.8E-01	1.0E+00	1.4E+00 U	5.6E-01 U	1.1E+00 U	1.1E+00 U
Tetrahydrofuran	5.7E-01 U	6.6E-01 U	4.8E-01 U	4.7E-01 U	5.0E-01 U	3.4E-01 U	8.3E-01 U	2.9E-01 U	5.2E-01 U	2.0E-01 U	2.9E-01 U	6.3E-01 U	3.6E-01	4.8E-01 U	4.7E-01 U
Toluene	1.0E+00	8.4E-01 U	6.1E-01 U	6.1E-01 U	1.1E+00	4.4E-01 U	1.1E+00 U	3.7E-01 U	6.6E-01 U	2.9E-01	3.7E-01 U	8.1E-01 U	3.1E-01 U	6.2E-01 U	6.1E-01 U
trans-1,2-Dichloroethene	7.7E-01 U	8.9E-01 U	6.5E-01 U	6.4E-01 U	6.7E-01 U	4.6E-01 U	1.1E+00 U	3.9E-01 U	6.9E-01 U	2.7E-01 U	3.9E-01 U	8.5E-01 U	3.3E-01 U	6.5E-01 U	6.4E-01 U
trans-1,3-Dichloropropene	8.8E-01 U	1.0E+00 U	7.4E-01 U	7.3E-01 U	7.6E-01 U	5.3E-01 U	1.3E+00 U	4.5E-01 U	7.9E-01 U	3.1E-01 U	4.4E-01 U	9.8E-01 U	3.8E-01 U	7.4E-01 U	7.3E-01 U
Trichloroethene	5.6E+00	6.0E+00	2.8E+00	5.6E+00	5.9E+00	7.9E+00	1.1E+01	8.8E+00	4.5E+00	3.0E+00	5.0E+00	4.7E+00	1.4E+00	8.8E+00	9.5E+00
Trichlorofluoromethane (Freon 11)	1.1E+02	1.3E+02	3.8E+01	6.2E+01	8.1E+01	9.9E+01	2.3E+02 J	1.2E+02	4.7E+01	3.6E+01	4.8E+01	6.3E+01	1.5E+02	3.2E+02	3.4E+02
Vinyl chloride	5.0E-01 U	5.7E-01 U	4.2E-01 U	4.1E-01 U	4.3E-01 U	3.0E-01 U	7.2E-01 U	2.5E-01 U	4.5E-01 U	1.8E-01 U	2.5E-01 U	5.5E-01 U	2.1E-01 U	4.2E-01 U	4.1E-01 U

TABLE 3

ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES AT SOIL VAPOR MONITORING POINTS [1,2,3,4,5]

Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per cubic meter (mg/m^3)

Analyte / Sample Date	SGD-MP 11/22/2011	SGD-MP-DUP 11/22/2011	SGD-MP 12/22/2011	SGD-MP-DUP 12/22/2011	SGD-MP 1/24/2012	SGD-MP-DUP 1/24/2012	SGD-MP 3/1/2012	SGD-MP-DUP 3/1/2012	SGD-MP 3/12/2012	SGD-MP-DUP 3/12/2012	SGD-MP 3/29/2012	SGD-MP-DUP 3/29/2012	SGD-MP 4/18/2012	SGD-MP-DUP 4/18/2012
1,1,1-Trichloroethane	1.2E+00 U	1.1E+00 U	4.5E-01 U	4.6E-01 U	1.6E+00 U	1.6E+00 U	4.4E-01 U	4.4E-01 U	1.5E+00 U	1.5E+00 U	8.3E-01 U	8.8E-01 U	9.4E-01 U	9.4E-01 U
1,1,2,2-Tetrachloroethane	1.5E+00 U	1.4E+00 U	5.6E-01 U	5.8E-01 U	2.0E+00 U	2.0E+00 U	5.6E-01 U	5.5E-01 U	1.8E+00 U	1.9E+00 U	1.0E+00 U	1.1E+00 U	1.2E+00 U	1.2E+00 U
1,1,2-Trichloroethane	1.2E+00 U	1.1E+00 U	4.5E-01 U	4.6E-01 U	1.6E+00 U	1.6E+00 U	4.4E-01 U	4.4E-01 U	1.5E+00 U	1.5E+00 U	8.3E-01 U	8.8E-01 U	9.4E-01 U	9.4E-01 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.4E+01	1.5E+01	1.4E+01	1.4E+01	1.4E+01	1.5E+01	1.5E+01	1.0E+01	1.6E+01	1.5E+01	1.0E+01	1.1E+01	1.3E+01	1.2E+01
1,1-Dichloroethane	8.8E-01 U	8.3E-01 U	3.3E-01 U	3.4E-01 U	1.2E+00 U	1.2E+00 U	3.3E-01 U	3.2E-01 U	1.1E+00 U	1.1E+00 U	6.2E-01 U	6.5E-01 U	7.0E-01 U	7.0E-01 U
1,1-Dichloroethene	9.1E-01	1.1E+00	1.1E+00	1.0E+00	1.1E+00 U	1.2E+00 U	1.3E+00	1.0E+00	1.2E+00 J	1.5E+00 J	9.1E-01	1.0E+00	7.4E-01	1.0E+00
1,1-Difluoroethane	2.4E+00 U	2.2E+00 U	8.9E-01 U	9.1E-01 U	3.1E+00 U	3.2E+00 U	8.8E-01 U	8.6E-01 U	2.9E+00 U	3.0E+00 U	1.6E+00 U	1.7E+00 U	--	--
1,2,4-Trichlorobenzene	6.5E+00 U	6.1E+00 U	2.4E+00 U	2.5E+00 U	8.5E+00 U	8.8E+00 U	2.4E+00 U	2.4E+00 U	8.0E+00 U	8.3E+00 U	4.5E+00 U	4.8E+00 U	5.1E+00 U	5.1E+00 U
1,2,4-Trimethylbenzene	1.1E+00 U	1.0E+00 U	4.0E-01 U	4.1E-01 U	1.4E+00 U	1.4E+00 U	1.6E+00 U	1.6E+00 U	1.3E+00 U	1.4E+00 U	7.5E-01 U	7.9E-01 U	8.4E-01 U	8.4E-01 U
1,2-Dibromoethane (EDB)	1.7E+00 U	1.6E+00 U	6.3E-01 U	6.4E-01 U	2.2E+00 U	2.3E+00 U	6.2E-01 U	6.1E-01 U	2.1E+00 U	2.2E+00 U	1.2E+00 U	1.2E+00 U	1.3E+00 U	1.3E+00 U
1,2-Dichlorobenzene	1.3E+00 U	1.2E+00 U	4.9E-01 U	5.0E-01 U	1.7E+00 U	1.8E+00 U	4.9E-01 U	4.8E-01 U	1.6E+00 U	1.7E+00 U	9.2E-01 U	9.7E-01 U	1.0E+00 U	1.0E+00 U
1,2-Dichloroethane	8.8E-01 U	8.3E-01 U	3.3E-01 U	3.4E-01 U	1.2E+00 U	1.2E+00 U	3.3E-01 U	3.2E-01 U	1.1E+00 U	1.1E+00 U	6.2E-01 U	6.5E-01 U	7.0E-01 U	7.0E-01 U
1,2-Dichloropropane	1.0E+00 U	9.5E-01 U	3.8E-01 U	3.9E-01 U	1.3E+00 U	1.4E+00 U	3.7E-01 U	3.7E-01 U	1.6E+00	1.3E+00 U	7.0E-01 U	7.4E-01 U	7.9E-01 U	7.9E-01 U
1,3,5-Trimethylbenzene	1.1E+00 U	1.0E+00 U	4.0E-01 U	4.1E-01 U	1.4E+00 U	1.4E+00 U	4.0E-01 U	3.9E-01 U	1.3E+00 U	1.4E+00 U	7.5E-01 U	7.9E-01 U	8.4E-01 U	8.4E-01 U
1,3-Butadiene	4.8E-01 U	4.5E-01 U	1.8E-01 U	1.8E-01 U	6.3E-01 U	6.6E-01 U	1.8E-01 U	1.8E-01 U	5.9E-01 U	6.2E-01 U	3.4E-01 U	3.6E-01 U	3.8E-01 U	3.8E-01 U
1,3-Dichlorobenzene	1.3E+00 U	1.2E+00 U	4.9E-01 U	5.0E-01 U	1.7E+00 U	1.8E+00 U	4.9E-01 U	4.8E-01 U	1.6E+00 U	1.7E+00 U	9.2E-01 U	9.7E-01 U	1.0E+00 U	1.0E+00 U
1,4-Dichlorobenzene	1.3E+00 U	1.2E+00 U	4.9E-01 U	5.0E-01 U	1.7E+00 U	1.8E+00 U	4.9E-01 U	4.8E-01 U	1.6E+00 U	1.7E+00 U	9.2E-01 U	9.7E-01 U	1.0E+00 U	1.0E+00 U
1,4-Dioxane	3.1E+00 U	3.0E+00 U	1.2E+00 U	1.2E+00 U	4.1E+00 U	4.3E+00 U	1.2E+00 U	1.2E+00 U	3.9E+00 U	4.0E+00 U	2.2E+00 U	2.3E+00 U	2.5E+00 U	2.5E+00 U
2,2,4-Trimethylpentane	1.0E+00 U	9.6E-01 U	3.8E-01 U	3.9E-01 U	1.3E+00 U	1.4E+00 U	3.8E-01 U	3.7E-01 U	1.2E+00 U	1.3E+00 U	7.1E-01 U	7.5E-01 U	8.0E-01 U	8.0E-01 U
2-Butanone (MEK)	2.6E+00 U	2.4E+00 U	9.7E-01 U	9.9E-01 U	3.4E+00 U	3.5E+00 U	9.6E-01 U	9.4E-01 U	3.2E+00 U	3.3E+00 U	1.8E+00 U	1.9E+00 U	2.0E+00 U	2.0E+00 U
2-Hexanone	3.6E+00 U	3.4E+00 U	1.3E+00 U	1.4E+00 U	4.7E+00 U	4.8E+00 U	1.3E+00 U	1.3E+00 U	4.4E+00 U	4.6E+00 U	2.5E+00 U	2.6E+00 U	2.8E+00 U	2.8E+00 U
2-Propanol	2.1E+00 U	2.0E+00 U	8.1E-01 U	8.2E-01 U	2.8E+00 U	2.9E+00 U	8.0E-01 U	7.9E-01 U	2.6E+00 U	2.8E+00 U	2.1E+00	1.6E+00 U	1.7E+00 U	1.7E+00 U
3-Chloropropene	2.7E+00 U	2.6E+00 U	1.0E+00 U	1.0E+00 U	3.6E+00 U	3.7E+00 U	1.0E+00 U	1.0E+00 U	3.4E+00 U	3.5E+00 U	1.9E+00 U	2.0E+00 U	2.2E+00 U	2.2E+00 U
4-Ethyltoluene	1.1E+00 U	1.0E+00 U	4.0E-01 U	4.1E-01 U	1.4E+00 U	1.4E+00 U	4.0E-01 U	3.9E-01 U	1.3E+00 U	1.4E+00 U	7.5E-01 U	7.9E-01 U	8.4E-01 U	8.4E-01 U
4-Methyl-2-pentanone (MIBK)	9.0E-01 U	8.4E-01 U	3.4E-01 U	3.4E-01 U	1.2E+00 U	1.2E+00 U	3.3E-01 U	3.3E-01 U	1.1E+00 U	1.1E+00 U	6.2E-01 U	6.6E-01 U	7.0E-01 U	7.0E-01 U
Acetone	2.1E+00 U	1.9E+00 U	3.0E+00	1.9E+00	2.7E+00 U	2.8E+00 U	7.7E-01 U	7.6E-01 U	6.4E+00 U	6.6E+00 U	3.6E+00 U	3.8E+00 U	4.1E+00 U	4.1E+00 U
alpha-Chlorotoluene	1.1E+00 U	1.1E+00 U	4.2E-01 U	4.3E-01 U	1.5E+00 U	1.5E+00 U	1.7E+00 U	1.6E+00 U	1.4E+00 U	1.4E+00 U	7.9E-01 U	8.3E-01 U	8.9E-01 U	8.9E-01 U
Benzene	7.0E-01 U	6.5E-01 U	2.6E-01 U	2.7E-01 U	9.2E-01 U	9.5E-01 U	1.0E+00	8.6E-01	8.6E-01 U	8.9E-01 U	4.9E-01 U	5.1E-01 U	5.5E-01 U	5.5E-01 U
Bromodichloromethane	1.5E+00 U	1.4E+00 U	5.5E-01 U	5.6E-01 U	1.9E+00 U	2.0E+00 U	5.4E-01 U	5.4E-01 U	1.8E+00 U	1.9E+00 U	1.0E+00 U	1.1E+00 U	1.2E+00 U	1.2E+00 U
Bromoform	2.2E+00 U	2.1E+00 U	8.5E-01 U	8.7E-01 U	3.0E+00 U	3.1E+00 U	3.3E+00 U	3.3E+00 U	2.8E+00 U	2.9E+00 U	1.6E+00 U	1.7E+00 U	1.8E+00 U	1.8E+00 U
Bromomethane	8.5E-01 U	8.0E-01 U	3.2E-01 U	3.3E-01 U	1.1E+00 U	1.2E+00 U	3.1E-01 U	3.1E-01 U	1.0E+01 U	1.1E+01 U	5.9E+00 U	6.2E+00 U	6.7E+00 U	6.7E+00 U
Carbon disulfide	2.7E+00 U	2.6E+00 U	2.6E-01 U	2.6E-01 U	3.6E+00 U	3.7E+00 U	2.8E-01	2.5E-01 U	3.3E+00 U	3.5E+00 U	1.9E+00 U	2.0E+00 U	2.1E+00 U	2.1E+00 U
Carbon tetrachloride	1.5E+01	1.3E+01	1.7E+01	1.8E+01	1.6E+01	1.7E+01	1.7E+01	1.2E+01	1.1E+01	1.2E+01	1.2E+01	1.4E+01	1.2E+01	1.3E+01
Chlorobenzene	1.0E+00 U	9.4E-01 U	3.8E-01 U	3.9E-01 U	1.3E+00 U	1.4E+00 U	3.7E-01 U	3.7E-01 U	1.2E+00 U	1.3E+00 U	7.0E-01 U	7.4E-01 U	7.9E-01 U	7.9E-01 U
Chloroethane	2.3E+00 U	2.2E+00 U	8.6E-01 U	8.9E-01 U	3.0E+00 U	3.1E+00 U	8.5E-01 U	8.4E-01 U	2.8E+00 U	3.0E+00 U	1.6E+00 U	1.7E+00 U	1.8E+00 U	1.8E+00 U
Chloroform	2.0E+02	1.8E+02	2.3E+02	2.4E+02	2.2E+02	2.3E+02	2.4E+02	1.6E+02	**2.4E+02**	**2.4E+02**	**1.8E+02**	**1.9E+02**	**2.1E+02**	**2.1E+02**
Chloromethane	1.8E+00 U	1.7E+00 U	6.8E-01 U	6.9E-01 U	2.4E+00 U	2.4E+00 U	6.7E-01 U	6.6E-01 U	5.5E+00 U	5.8E+00 U	3.1E+00 U	3.3E+00 U	3.6E+00 U	3.6E+00 U
cis-1,2-Dichloroethene	8.7E-01 U	8.1E-01 U	3.2E-01 U	3.3E-01 U	1.1E+00 U	1.2E+00 U	3.2E-01 U	3.2E-01 U	1.1E+00 U	1.1E+00 U	6.0E-01 U	6.4E-01 U	6.8E-01 U	6.8E-01 U
cis-1,3-Dichloropropene	9.9E-01 U	9.3E-01 U	3.7E-01 U	3.8E-01 U	1.3E+00 U	1.3E+00 U	3.7E-01 U	3.6E-01 U	1.2E+00 U	1.3E+00 U	6.9E-01 U	7.3E-01 U	7.8E-01 U	7.8E-01 U
Cyclohexane	7.5E-01 U	7.0E-01 U	3.2E-01	3.2E-01	9.9E-01 U	1.0E+00 U	3.6E+00	2.9E+00	9.2E-01 U	9.6E-01 U	5.2E-01 U	5.5E-01 U	5.9E-01 U	5.9E-01 U
Dibromochloromethane	1.9E+00 U	1.7E+00 U	7.0E-01 U	7.2E-01 U	2.4E+00 U	2.5E+00 U	6.9E-01 U	6.8E-01 U	2.3E+00 U	2.4E+00 U	1.3E+00 U	1.4E+00 U	1.5E+00 U	1.5E+00 U
Dichlorodifluoromethane (Freon 12)	1.4E+01	1.5E+01	1.6E+01	1.7E+01	1.7E+01 J	1.8E+01 J	1.7E+01	1.2E+01	1.3E+01	1.3E+01	9.4E+00	9.8E+00	1.2E+01	1.2E+01
Dichlorotetrafluoroethane (Freon 114)	1.5E+00 U	1.4E+00 U	5.7E-01 U	5.9E-01 U	2.0E+00 U	2.1E+00 U	5.7E-01 U	5.6E-01 U	1.9E+00 U	2.0E+00 U	1.1E+00 U	1.1E+00 U	1.2E+00 U	1.2E+00 U

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Concentrations shown in milligrams per cubic meter (mg/m^3)

Analyte / Sample Date	SGD-MP 11/22/2011	SGD-MP-DUP 11/22/2011	SGD-MP 12/22/2011	SGD-MP-DUP 12/22/2011	SGD-MP 1/24/2012	SGD-MP-DUP 1/24/2012	SGD-MP 3/1/2012	SGD-MP-DUP 3/1/2012	SGD-MP 3/12/2012	SGD-MP-DUP 3/12/2012	SGD-MP 3/29/2012	SGD-MP-DUP 3/29/2012	SGD-MP 4/18/2012	SGD-MP-DUP 4/18/2012
Ethanol	1.6E+00 U	1.5E+00 U	6.2E-01 U	6.3E-01 U	2.2E+00 U	2.2E+00 U	6.1E-01 U	6.0E-01 U	2.0E+00 U	2.1E+00 U	1.1E+00 U	1.2E+00 U	1.3E+00 U	1.3E+00 U
Ethylbenzene	9.5E-01 U	8.9E-01 U	3.6E-01 U	3.6E-01 U	1.2E+00 U	1.3E+00 U	3.5E-01 U	3.5E-01 U	1.2E+00 U	1.2E+00 U	6.6E-01 U	7.0E-01 U	7.5E-01 U	7.5E-01 U
Heptane	9.0E-01 U	8.4E-01 U	3.4E-01 U	3.4E-01 U	1.2E+00 U	1.2E+00 U	2.3E+00	2.1E+00	1.1E+00 U	1.1E+00 U	6.2E-01 U	6.6E-01 U	7.0E-01 U	7.0E-01 U
Hexachlorobutadiene	9.3E+00 U	8.7E+00 U	3.5E+00 U	3.6E+00 U	1.2E+01 U	1.3E+01 U	3.4E+00 U	3.4E+00 U	1.1E+01 U	1.2E+01 U	6.5E+00 U	6.9E+00 U	7.3E+00 U	7.3E+00 U
Hexane	7.7E-01 U	7.2E-01 U	2.9E-01 U	3.0E-01 U	1.0E+00 U	1.0E+00 U	9.8E+00	6.9E+00	9.5E-01 U	9.9E-01 U	5.4E-01 U	5.7E-01 U	6.1E-01 U	6.1E-01 U
Isopropylbenzene	1.1E+00 U	1.0E+00 U	4.0E-01 U	4.1E-01 U	1.4E+00 U	1.4E+00 U	4.0E-01 U	3.9E-01 U	1.3E+00 U	1.4E+00 U	7.5E-01 U	7.9E-01 U	8.4E-01 U	8.4E-01 U
m,p-Xylene	9.5E-01 U	8.9E-01 U	3.6E-01 U	3.6E-01 U	1.2E+00 U	1.3E+00 U	3.5E-01 U	3.5E-01 U	1.2E+00 U	1.2E+00 U	6.6E-01 U	7.0E-01 U	7.5E-01 U	7.5E-01 U
Methyl tert-butyl ether	7.9E-01 U	7.4E-01 U	3.0E-01 U	3.0E-01 U	1.0E+00 U	1.1E+00 U	2.9E-01 U	2.9E-01 U	9.7E-01 U	1.0E+00 U	5.5E-01 U	5.8E-01 U	6.2E-01 U	6.2E-01 U
Methylene chloride	1.1E+00	1.2E+00	1.2E+00	1.3E+00	2.4E+00	2.4E+00	1.4E+00	1.0E+00	9.3E+00 U	9.7E+00 U	5.3E+00 U	5.6E+00 U	6.0E+00 U	6.0E+00 U
n-Propylbenzene	1.1E+00 U	1.0E+00 U	4.0E-01 U	4.1E-01 U	1.4E+00 U	1.4E+00 U	4.0E-01 U	3.9E-01 U	1.3E+00 U	1.4E+00 U	7.5E-01 U	7.9E-01 U	8.4E-01 U	8.4E-01 U
o-Xylene	9.5E-01 U	8.9E-01 U	3.6E-01 U	3.6E-01 U	1.2E+00 U	1.3E+00 U	3.5E-01 U	3.5E-01 U	1.2E+00 U	1.2E+00 U	6.6E-01 U	7.0E-01 U	7.5E-01 U	7.5E-01 U
Styrene	9.3E-01 U	8.7E-01 U	3.5E-01 U	3.6E-01 U	1.2E+00 U	1.3E+00 U	3.4E-01 U	3.4E-01 U	1.1E+00 U	1.2E+00 U	6.9E-01	6.8E-01 U	7.3E-01 U	7.3E-01 U
Tetrachloroethene	1.5E+00 U	1.4E+00 U	1.8E+00	1.9E+00	6.4E+00	5.3E+00	1.5E+00	9.3E-01	1.8E+00 U	1.9E+00 U	1.9E+00	1.7E+00	1.4E+00	1.6E+00
Tetrahydrofuran	6.4E-01 U	6.0E-01 U	2.4E-01 U	2.5E-01 U	8.4E-01 U	8.7E-01 U	2.4E-01 U	2.4E-01 U	7.9E-01 U	8.2E-01 U	4.5E-01 U	4.7E-01 U	5.1E-01 U	5.1E-01 U
Toluene	8.4E-01	1.9E+00	3.1E-01 U	3.2E-01 U	1.1E+00 U	1.1E+00 U	3.0E-01 U	3.0E-01 U	1.0E+00 U	1.1E+00	5.7E-01 U	6.1E-01 U	6.5E-01 U	6.5E-01 U
trans-1,2-Dichloroethene	8.7E-01 U	8.1E-01 U	3.2E-01 U	3.3E-01 U	1.1E+00 U	1.2E+00 U	3.2E-01 U	3.2E-01 U	1.1E+00 U	1.1E+00 U	6.0E-01 U	6.4E-01 U	6.8E-01 U	6.8E-01 U
trans-1,3-Dichloropropene	9.9E-01 U	9.3E-01 U	3.7E-01 U	3.8E-01 U	1.3E+00 U	1.3E+00 U	3.7E-01 U	3.6E-01 U	1.2E+00 U	1.3E+00 U	6.9E-01 U	7.3E-01 U	7.8E-01 U	7.8E-01 U
Trichloroethene	9.2E+00	8.6E+00	1.2E+01	1.3E+01	1.1E+01	1.1E+01	1.1E+01	7.9E+00	1.2E+01	1.2E+01	1.1E+01	1.1E+01	1.0E+01	1.1E+01
Trichlorofluoromethane (Freon 11)	3.8E+02	3.7E+02	3.8E+02	3.9E+02	4.2E+02 J	4.2E+02 J	4.0E+02	2.8E+02	3.8E+02	3.7E+02	2.7E+02	2.8E+02	3.5E+02	3.4E+02
Vinyl chloride	5.6E-01 U	5.2E-01 U	2.1E-01 U	2.1E-01 U	7.3E-01 U	7.6E-01 U	2.1E-01 U	2.0E-01 U	6.9E-01 U	7.2E-01 U	3.9E-01 U	4.1E-01 U	4.4E-01 U	4.4E-01 U

TABLE 3

ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES AT SOIL VAPOR MONITORING POINTS [1,2,3,4,5]

Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per cubic meter (mg/m^3)

Analyte / Sample Date	SGD-MP 10/17/2012	SGD-DP 10/18/2011	SGD-DP 11/3/2011	SGD-DP 11/22/2011	SGD-DP 12/22/2011	SGD-DP 1/24/2012	SGD-DP 3/1/2012	SGD-DP 3/12/2012	SGD-DP 3/29/2012	SGD-DP 4/18/2012	SGD-DP 10/17/2012	SGD-Well 11/3/2011	SGD-Well 12/22/2011	SGD-well 3/5/2012	MW-2 10/18/2011	MW-2 4/18/2012
1,1,1-Trichloroethane	1.4E+00 U	4.6E-01 U	9.2E-01 U	9.8E-01 U	1.4E-01 U	4.6E-01 U	3.3E-01 U	4.7E-01 U	2.4E-01 U	4.3E-01 U	4.1E-01 U	1.9E-02 U	9.3E-02 U	7.6E-02 U	4.6E-03 U	4.4E-03 U
1,1,2,2-Tetrachloroethane	1.8E+00 U	5.8E-01 U	1.2E+00 U	1.2E+00 U	1.8E-01 U	5.8E-01 U	4.1E-01 U	5.9E-01 U	3.0E-01 U	5.4E-01 U	5.1E-01 U	2.3E-02 U	1.2E-01 U	9.6E-02 U	5.8E-03 U	5.5E-03 U
1,1,2-Trichloroethane	1.4E+00 U	4.6E-01 U	9.2E-01 U	9.8E-01 U	1.4E-01 U	4.6E-01 U	3.3E-01 U	4.7E-01 U	2.4E-01 U	4.3E-01 U	4.1E-01 U	1.9E-02 U	9.3E-02 U	7.6E-02 U	4.6E-03 U	4.4E-03 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0E+01	2.4E+00	4.8E+00	3.4E+00	3.6E+00	3.2E+00	6.7E+00	4.2E+00	2.8E+00	4.2E+00	1.9E+00	8.4E-02	1.3E-01 U	6.2E-01	7.1E-03	6.2E-03 U
1,1-Dichloroethane	1.0E+00 U	3.4E-01 U	6.8E-01 U	7.2E-01 U	1.1E-01 U	3.4E-01 U	2.4E-01 U	3.5E-01 U	1.8E-01 U	3.2E-01 U	3.0E-01 U	1.4E-02 U	6.9E-02 U	5.7E-02 U	3.4E-03 U	3.2E-03 U
1,1-Dichloroethene	1.0E+00 U	3.3E-01 U	6.7E-01 U	7.1E-01 U	4.4E-01	3.3E-01 U	7.1E-01	7.1E-01 J	3.4E-01	4.9E-01	3.0E-01 U	1.4E-02 U	6.8E-02 U	5.6E-02 U	3.3E-03 U	3.2E-03 U
1,1-Difluoroethane	--	--	--	1.9E+00 U	2.8E-01 U	9.1E-01 U	6.5E-01 U	9.2E-01 U	4.7E-01 U	--	--	--	1.6E+02 J	1.5E-01 U	--	--
1,2,4-Trichlorobenzene	7.6E+00 U	2.5E+00 U	5.0E+00 U	5.3E+00 U	7.8E-01 U	2.5E+00 U	1.8E+00 U	2.5E+00 U	1.3E+00 U	2.4E+00 U	2.2E+00 U	1.0E-01 U	5.1E-01 U	4.2E-01 U	2.5E-02 U	2.4E-02 U
1,2,4-Trimethylbenzene	1.3E+00 U	4.1E-01 U	8.2E-01 U	8.8E-01 U	1.3E-01 U	4.1E-01 U	1.2E+00 U	4.2E-01 U	2.2E-01 U	3.9E-01 U	3.7E-01 U	1.7E-02 U	8.4E-02 U	6.9E-02 U	4.1E-03 U	4.0E-03 U
1,2-Dibromoethane (EDB)	2.0E+00 U	6.4E-01 U	1.3E+00 U	1.4E+00 U	2.0E-01 U	6.4E-01 U	4.6E-01 U	6.6E-01 U	3.4E-01 U	6.1E-01 U	5.7E-01 U	2.6E-02 U	1.3E-01 U	1.1E-01 U	6.4E-03 U	6.2E-03 U
1,2-Dichlorobenzene	1.6E+00 U	5.0E-01 U	1.0E+00 U	1.1E+00 U	1.6E-01 U	5.0E-01 U	3.6E-01 U	5.1E-01 U	2.6E-01 U	4.8E-01 U	4.5E-01 U	2.0E-02 U	1.0E-01 U	8.4E-02 U	5.0E-03 U	4.8E-03 U
1,2-Dichloroethane	1.0E+00 U	3.4E-01 U	6.8E-01 U	7.2E-01 U	1.1E-01 U	3.4E-01 U	2.4E-01 U	3.5E-01 U	1.8E-01 U	3.2E-01 U	3.0E-01 U	1.4E-02 U	6.9E-02 U	5.7E-02 U	3.4E-03 U	3.2E-03 U
1,2-Dichloropropane	1.2E+00 U	3.9E-01 U	7.8E-01 U	8.3E-01 U	1.2E-01 U	3.9E-01 U	2.8E-01 U	4.0E-01 U	2.0E-01 U	3.7E-01 U	3.4E-01 U	1.6E-02 U	7.9E-02 U	6.5E-02 U	3.9E-03 U	3.7E-03 U
1,3,5-Trimethylbenzene	1.3E+00 U	4.1E-01 U	8.2E-01 U	8.8E-01 U	1.3E-01 U	4.1E-01 U	2.9E-01 U	4.2E-01 U	2.2E-01 U	3.9E-01 U	3.7E-01 U	1.7E-02 U	8.4E-02 U	6.9E-02 U	4.1E-03 U	4.0E-03 U
1,3-Butadiene	5.7E-01 U	1.8E-01 U	3.7E-01 U	4.0E-01 U	5.8E-02 U	1.8E-01 U	1.3E-01 U	1.9E-01 U	9.7E-02 U	1.8E-01 U	1.6E-01 U	7.6E-03 U	3.8E-02 U	3.1E-02 U	1.8E-03 U	1.8E-03 U
1,3-Dichlorobenzene	1.6E+00 U	5.0E-01 U	1.0E+00 U	1.1E+00 U	1.6E-01 U	5.0E-01 U	3.6E-01 U	5.1E-01 U	2.6E-01 U	4.8E-01 U	4.5E-01 U	2.0E-02 U	1.0E-01 U	8.4E-02 U	5.0E-03 U	4.8E-03 U
1,4-Dichlorobenzene	1.6E+00 U	5.0E-01 U	1.0E+00 U	1.1E+00 U	1.6E-01 U	5.0E-01 U	3.6E-01 U	5.1E-01 U	2.6E-01 U	4.8E-01 U	4.5E-01 U	2.0E-02 U	1.0E-01 U	8.4E-02 U	5.0E-03 U	4.8E-03 U
1,4-Dioxane	3.7E+00 U	1.2E+00 U	2.4E+00 U	2.6E+00 U	3.8E-01 U	1.2E+00 U	8.6E-01 U	1.2E+00 U	6.3E-01 U	1.1E+00 U	1.1E+00 U	4.9E-02 U	2.5E-01 U	2.0E-01 U	1.2E-02 U	1.2E-02 U
2,2,4-Trimethylpentane	1.2E+00 U	3.9E-01 U	7.8E-01 U	8.4E-01 U	1.2E-01 U	3.9E-01 U	2.8E-01 U	4.0E-01 U	2.0E-01 U	3.7E-01 U	3.5E-01 U	1.6E-02 U	8.0E-02 U	6.5E-02 U	3.9E-03 U	3.8E-03 U
2-Butanone (MEK)	3.0E+00 U	9.9E-01 U	2.0E+00 U	2.1E+00 U	3.1E-01 U	9.9E-01 U	7.1E-01 U	1.0E+00 U	5.2E-01 U	9.4E-01 U	8.8E-01 U	4.0E-02 U	2.0E-01 U	1.6E-01 U	9.9E-03 U	9.5E-03 U
2-Hexanone	4.2E+00 U	1.4E+00 U	2.8E+00 U	2.9E+00 U	4.3E-01 U	1.4E+00 U	9.8E-01 U	1.4E+00 U	7.2E-01 U	1.3E+00 U	1.2E+00 U	5.6E-02 U	2.8E-01 U	2.3E-01 U	1.4E-02 U	1.3E-02 U
2-Propanol	2.5E+00 U	8.2E-01 U	1.6E+00 U	1.8E+00 U	2.6E-01 U	8.2E-01 U	5.9E-01 U	9.1E-01	4.3E-01 U	2.3E+00	7.3E-01 U	3.4E-02 U	1.7E-01 U	1.4E-01 U	8.2E-03 U	7.9E-03 U
3-Chloropropene	3.2E+00 U	1.0E+00 U	2.1E+00 U	2.2E+00 U	3.3E-01 U	1.0E+00 U	7.5E-01 U	1.1E+00 U	5.5E-01 U	1.0E+00 U	9.3E-01 U	4.3E-02 U	2.1E-01 U	1.8E-01 U	1.0E-02 U	1.0E-02 U
4-Ethyltoluene	1.3E+00 U	4.1E-01 U	8.2E-01 U	8.8E-01 U	1.3E-01 U	4.1E-01 U	2.9E-01 U	4.2E-01 U	2.2E-01 U	3.9E-01 U	3.7E-01 U	1.7E-02 U	8.4E-02 U	6.9E-02 U	4.1E-03 U	4.0E-03 U
4-Methyl-2-pentanone (MIBK)	1.0E+00 U	3.4E-01 U	6.9E-01 U	7.3E-01 U	1.1E-01 U	3.4E-01 U	2.4E-01 U	3.5E-01 U	1.8E-01 U	3.2E-01 U	3.0E-01 U	1.4E-02 U	7.0E-02 U	5.7E-02 U	3.4E-03 U	3.3E-03 U
Acetone	2.4E+00 U	8.0E-01 U	1.6E+00 U	1.7E+00 U	2.5E-01 U	8.0E-01 U	5.7E-01 U	2.0E+00 U	1.0E+00 U	4.0E+00	7.1E-01 U	4.4E-02	1.6E-01 U	3.3E-01 U	4.3E-02	2.0E-02
alpha-Chlorotoluene	1.3E+00 U	4.3E-01 U	8.7E-01 U	9.3E-01 U	1.4E-01 U	4.3E-01 U	1.2E+00 U	4.4E-01 U	2.3E-01 U	4.1E-01 U	3.8E-01 U	1.8E-02 U	8.8E-02 U	7.2E-02 U	4.3E-03 U	4.2E-03 U
Benzene	8.2E-01 U	2.7E-01 U	5.4E-01 U	5.7E-01 U	8.4E-02 U	2.7E-01 U	1.9E-01 U	2.7E-01 U	1.4E-01 U	2.5E-01 U	2.4E-01 U	1.1E-02 U	5.5E-02 U	4.5E-02 U	2.7E-03 U	2.6E-03 U
Bromodichloromethane	1.7E+00 U	5.6E-01 U	1.1E+00 U	1.2E+00 U	1.8E-01 U	5.6E-01 U	4.0E-01 U	5.7E-01 U	2.9E-01 U	5.3E-01 U	5.0E-01 U	2.3E-02 U	1.1E-01 U	9.4E-02 U	5.6E-03 U	5.4E-03 U
Bromoform	2.7E+00 U	8.7E-01 U	1.7E+00 U	1.8E+00 U	2.7E-01 U	8.7E-01 U	2.5E+00 U	8.8E-01 U	4.5E-01 U	8.2E-01 U	7.7E-01 U	3.5E-02 U	1.8E-01 U	1.4E-01 U	8.7E-03 U	8.3E-03 U
Bromomethane	1.0E+00 U	3.3E-01 U	6.5E-01 U	7.0E-01 U	1.0E-01 U	3.3E-01 U	2.3E-01 U	3.3E+00 U	1.7E+00 U	3.1E+00 U	2.9E-01 U	1.3E-02 U	6.6E-02 U	5.4E-01 U	3.3E-03 U	3.1E-02 U
Carbon disulfide	8.0E-01 U	1.0E+00 U	2.1E+00 U	2.2E+00 U	8.2E-02 U	1.0E+00 U	1.9E-01 U	1.6E+00 J	5.4E-01 U	2.6E+00	2.3E-01 U	4.3E-02 U	2.1E-01 U	1.7E-01 U	1.0E-02	1.0E-02 U
Carbon tetrachloride	1.0E+01	2.7E+00	4.9E+00	5.4E+00	4.4E+00	3.5E+00	7.4E+00	3.7E+00	3.3E+00	4.3E+00	1.8E+00	4.5E-02	1.1E-01 U	6.6E-01	1.0E-02 J	8.1E-03
Chlorobenzene	1.2E+00 U	3.9E-01 U	7.7E-01 U	8.2E-01 U	1.2E-01 U	3.9E-01 U	2.8E-01 U	3.9E-01 U	2.0E-01 U	3.6E-01 U	3.4E-01 U	1.6E-02 U	7.9E-02 U	6.4E-02 U	3.9E-03 U	3.7E-03 U
Chloroethane	2.7E+00 U	8.9E-01 U	1.8E+00 U	1.9E+00 U	2.8E-01 U	8.9E-01 U	6.3E-01 U	9.0E-01 U	4.6E-01 U	8.4E-01 U	7.9E-01 U	3.6E-02 U	1.8E-01 U	1.5E-01 U	8.9E-03 U	8.5E-03 U
Chloroform	1.5E+02	1.3E+01	1.9E+01	1.7E+01	1.8E+01	1.4E+01	2.7E+01	6.3E+01	1.3E+01	1.7E+01	8.4E+00	1.4E-01	8.3E-02 U	3.0E+00	4.1E-03 U	3.9E-03 U
Chloromethane	2.1E+00 U	6.9E-01 U	1.4E+00 U	1.5E+00 U	2.2E-01 U	6.9E-01 U	5.0E-01 U	1.8E+00 U	9.0E-01 U	1.6E+00 U	6.2E-01 U	2.8E-02 U	1.4E-01 U	2.9E-01 U	6.9E-03 U	1.7E-02 U
cis-1,2-Dichloroethene	1.0E+00 U	3.3E-01 U	6.7E-01 U	7.1E-01 U	1.0E-01 U	3.3E-01 U	2.4E-01 U	3.4E-01 U	1.7E-01 U	3.2E-01 U	3.0E-01 U	1.4E-02 U	6.8E-02 U	5.6E-02 U	3.3E-03 U	3.2E-03 U
cis-1,3-Dichloropropene	1.2E+00 U	3.8E-01 U	7.6E-01 U	8.1E-01 U	1.2E-01 U	3.8E-01 U	2.7E-01 U	3.9E-01 U	2.0E-01 U	3.6E-01 U	3.4E-01 U	1.6E-02 U	7.8E-02 U	6.4E-02 U	3.8E-03 U	3.6E-03 U
Cyclohexane	8.9E-01 U	2.9E-01 U	5.8E-01 U	6.2E-01 U	9.1E-02 U	2.9E-01 U	3.7E-01	2.9E-01 U	1.5E-01 U	2.7E-01 U	2.6E-01 U	1.2E-02 U	5.9E-02 U	4.8E-02 U	2.9E-03 U	2.8E-03 U
Dibromochloromethane	2.2E+00 U	7.2E-01 U	1.4E+00 U	1.5E+00 U	2.2E-01 U	7.2E-01 U	5.1E-01 U	7.3E-01 U	3.7E-01 U	6.8E-01 U	6.3E-01 U	2.9E-02 U	1.4E-01 U	1.2E-01 U	7.2E-03 U	6.8E-03 U
Dichlorodifluoromethane (Freon 12)	1.1E+01	2.2E+00	3.4E+00	3.6E+00	3.6E+00	3.1E+00 J	5.9E+00	3.0E+00	2.3E+00	3.4E+00	1.9E+00	1.4E-01	8.4E-02 U	4.2E-01	1.4E-02	4.0E-03 U
Dichlorotetrafluoroethane (Freon 114)	1.8E+00 U	5.9E-01 U	1.2E+00 U	1.2E+00 U	1.8E-01 U	5.9E-01 U	4.2E-01 U	6.0E-01 U	3.0E-01 U	5.6E-01 U	5.2E-01 U	2.4E-02 U	1.2E-01 U	9.8E-02 U	5.9E-03 U	5.6E-03 U

TABLE 3

ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES AT SOIL VAPOR MONITORING POINTS [1,2,3,4,5]

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Concentrations shown in milligrams per cubic meter (mg/m^3)

Analyte / Sample Date	SGD-MP 10/17/2012	SGD-DP 10/18/2011	SGD-DP 11/3/2011	SGD-DP 11/22/2011	SGD-DP 12/22/2011	SGD-DP 1/24/2012	SGD-DP 3/1/2012	SGD-DP 3/12/2012	SGD-DP 3/29/2012	SGD-DP 4/18/2012	SGD-DP 10/17/2012	SGD-Well 11/3/2011	SGD-Well 12/22/2011	SGD-well 3/5/2012	MW-2 10/18/2011	MW-2 4/18/2012
Ethanol	1.9E+00 U	6.3E-01 U	1.3E+00 U	1.3E+00 U	2.0E-01 U	6.3E-01 U	4.5E-01 U	6.4E-01 U	3.3E-01 U	1.4E+00	5.6E-01 U	2.6E-02 U	1.3E-01 U	1.0E-01 U	9.6E-03	6.1E-03 U
Ethylbenzene	1.1E+00 U	3.6E-01 U	7.3E-01 U	7.8E-01 U	1.1E-01 U	3.6E-01 U	2.6E-01 U	3.7E-01 U	1.9E-01 U	3.4E-01 U	3.2E-01 U	1.5E-02 U	7.4E-02 U	6.1E-02 U	3.6E-03 U	3.5E-03 U
Heptane	1.0E+00 U	3.4E-01 U	6.9E-01 U	7.3E-01 U	1.1E-01 U	3.4E-01 U	2.4E-01 U	3.5E-01 U	1.8E-01 U	3.2E-01 U	3.0E-01 U	1.4E-02 U	7.0E-02 U	5.7E-02 U	3.4E-03 U	3.3E-03 U
Hexachlorobutadiene	1.1E+01 U	3.6E+00 U	7.2E+00 U	7.6E+00 U	1.1E+00 U	3.6E+00 U	2.6E+00 U	3.6E+00 U	1.9E+00 U	3.4E+00 U	3.2E+00 U	1.4E-01 U	7.3E-01 U	6.0E-01 U	3.6E-02 U	3.4E-02 U
Hexane	9.1E-01 U	3.0E-01 U	5.9E-01 U	6.3E-01 U	9.3E-02 U	3.0E-01 U	5.7E-01	3.0E-01 U	1.5E-01 U	2.8E-01 U	2.6E-01 U	1.2E-02 U	6.0E-02 U	4.9E-02 U	3.0E-03 U	2.8E-03 U
Isopropylbenzene	1.3E+00 U	4.1E-01 U	8.2E-01 U	8.8E-01 U	1.3E-01 U	4.1E-01 U	2.9E-01 U	4.2E-01 U	2.2E-01 U	3.9E-01 U	3.7E-01 U	1.7E-02 U	8.4E-02 U	6.9E-02 U	4.1E-03 U	4.0E-03 U
m,p-Xylene	1.1E+00 U	3.6E-01 U	7.3E-01 U	7.8E-01 U	1.1E-01 U	3.6E-01 U	2.6E-01 U	3.7E-01 U	1.9E-01 U	3.4E-01 U	3.2E-01 U	1.5E-02 U	7.4E-02 U	6.1E-02 U	5.0E-03	4.3E-03
Methyl tert-butyl ether	9.3E-01 U	3.0E-01 U	6.0E-01 U	6.4E-01 U	9.5E-02 U	3.0E-01 U	2.2E-01 U	3.1E-01 U	1.6E-01 U	2.9E-01 U	2.7E-01 U	1.2E-02 U	6.2E-02 U	5.0E-02 U	3.0E-03 U	2.9E-03 U
Methylene chloride	9.0E-01 U	4.1E-01	5.8E-01 U	6.2E-01 U	1.7E-01	5.0E-01	4.2E-01	3.0E+00 U	1.5E+00 U	2.8E+00 U	2.6E-01 U	1.2E-02 U	5.9E-02 U	4.9E-01 U	3.6E-03	2.8E-02 U
n-Propylbenzene	1.3E+00 U	4.1E-01 U	8.2E-01 U	8.8E-01 U	1.3E-01 U	4.1E-01 U	2.9E-01 U	4.2E-01 U	2.2E-01 U	3.9E-01 U	3.7E-01 U	1.7E-02 U	8.4E-02 U	6.9E-02 U	4.1E-03 U	4.0E-03 U
o-Xylene	1.1E+00 U	3.6E-01 U	7.3E-01 U	7.8E-01 U	1.1E-01 U	3.6E-01 U	2.6E-01 U	3.7E-01 U	1.9E-01 U	3.4E-01 U	3.2E-01 U	1.5E-02 U	7.4E-02 U	6.1E-02 U	3.6E-03 U	3.5E-03 U
Styrene	1.1E+00 U	3.6E-01 U	7.2E-01 U	7.6E-01 U	1.1E-01 U	3.6E-01 U	2.6E-01 U	3.7E-01	1.9E-01 U	3.8E-01	3.2E-01 U	1.4E-02 U	7.3E-02 U	6.0E-02 U	3.6E-03 U	3.4E-03 U
Tetrachloroethene	1.8E+00 U	5.7E-01 U	1.1E+00 U	1.2E+00 U	3.5E-01	6.4E-01	5.3E-01	9.2E-01	3.3E-01	5.4E-01 U	5.0E-01 U	2.3E-02 U	1.2E-01 U	9.5E-02 U	5.7E-03 U	5.5E-03 U
Tetrahydrofuran	7.6E-01 U	2.5E-01 U	5.0E-01 U	5.3E-01 U	7.8E-02 U	2.5E-01 U	1.8E-01 U	2.5E-01 U	1.3E-01 U	2.3E-01 U	2.2E-01 U	1.0E-02 U	5.0E-02 U	4.1E-02 U	2.5E-03 U	2.4E-03 U
Toluene	9.7E-01 U	3.2E-01 U	6.3E-01 U	6.7E-01 U	9.9E-02 U	3.2E-01 U	2.3E-01 U	5.2E-01	1.9E-01	1.9E+00	2.8E-01 U	1.3E-02 U	6.4E-02 U	5.8E-02	3.2E-03 U	3.0E-03 U
trans-1,2-Dichloroethene	1.0E+00 U	3.3E-01 U	6.7E-01 U	7.1E-01 U	1.0E-01 U	3.3E-01 U	2.4E-01 U	3.4E-01 U	1.7E-01 U	3.2E-01 U	3.0E-01 U	1.4E-02 U	6.8E-02 U	5.6E-02 U	3.3E-03 U	3.2E-03 U
trans-1,3-Dichloropropene	1.2E+00 U	3.8E-01 U	7.6E-01 U	8.1E-01 U	1.2E-01 U	3.8E-01 U	2.7E-01 U	3.9E-01 U	2.0E-01 U	3.6E-01 U	3.4E-01 U	1.6E-02 U	7.8E-02 U	6.4E-02 U	3.8E-03 U	3.6E-03 U
Trichloroethene	7.6E+00	1.4E+00	2.3E+00	2.0E+00	2.5E+00	2.1E+00	3.8E+00	3.6E+00	1.9E+00	2.5E+00	1.2E+00	1.8E-02 U	9.2E-02 U	2.9E-01	4.5E-03 U	4.3E-03 U
Trichlorofluoromethane (Freon 11)	2.7E+02	9.6E+01	1.6E+02	1.9E+02	1.3E+02	1.2E+02 J	2.1E+02	1.2E+02	9.1E+01	1.3E+02	6.0E+01	4.3E+00	9.6E-02 U	2.0E+01	3.4E-01	1.2E-01
Vinyl chloride	6.6E-01 U	2.1E-01 U	4.3E-01 U	4.6E-01 U	6.7E-02 U	2.1E-01 U	1.5E-01 U	2.2E-01 U	1.1E-01 U	2.0E-01 U	1.9E-01 U	8.7E-03 U	4.4E-02 U	3.6E-02 U	2.1E-03 U	2.0E-03 U

TABLE 3

ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES AT SOIL VAPOR MONITORING POINTS [1,2,3,4,5]

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Concentrations shown in milligrams per cubic meter (mg/m^3)

	MW-2	MW-5	MW-5-Dup	MW-5	MW-5
Analyte / Sample Date	**10/17/2012**	**10/18/2011**	**10/18/2011**	**4/18/2012**	**10/17/2012**
1,1,1-Trichloroethane	7.3E-03 U	4.7E-03 U	4.8E-03 U	4.8E-03 U	6.9E-03 U
1,1,2,2-Tetrachloroethane	9.2E-03 U	5.9E-03 U	6.0E-03 U	6.0E-03 U	8.6E-03 U
1,1,2-Trichloroethane	7.3E-03 U	4.7E-03 U	4.8E-03 U	4.8E-03 U	6.9E-03 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	3.2E-02	8.5E-03	8.7E-03	6.7E-03 U	3.4E-02
1,1-Dichloroethane	5.4E-03 U	3.5E-03 U	3.5E-03 U	3.6E-03 U	5.1E-03 U
1,1-Dichloroethene	5.3E-03 U	3.4E-03 U	3.5E-03 U	3.5E-03 U	5.0E-03 U
1,1-Difluoroethane	--	--	--	--	--
1,2,4-Trichlorobenzene	4.0E-02 U	2.6E-02 U	2.6E-02 U	2.6E-02 U	3.7E-02 U
1,2,4-Trimethylbenzene	6.6E-03 U	4.2E-03 U	4.3E-03 U	1.1E-01 J	9.4E-03
1,2-Dibromoethane (EDB)	1.0E-02 U	6.6E-03 U	6.7E-03 U	6.8E-03 U	9.7E-03 U
1,2-Dichlorobenzene	8.1E-03 U	5.2E-03 U	5.3E-03 U	5.3E-03 U	7.6E-03 U
1,2-Dichloroethane	5.4E-03 U	3.5E-03 U	3.5E-03 U	3.6E-03 U	5.1E-03 U
1,2-Dichloropropane	6.2E-03 U	4.0E-03 U	4.0E-03 U	4.1E-03 U	5.8E-03 U
1,3,5-Trimethylbenzene	6.6E-03 U	4.2E-03 U	4.3E-03 U	3.1E-02	6.2E-03 U
1,3-Butadiene	3.0E-03 U	1.9E-03 U	1.9E-03 U	1.9E-03 U	2.8E-03 U
1,3-Dichlorobenzene	8.1E-03 U	5.2E-03 U	5.3E-03 U	5.3E-03 U	7.6E-03 U
1,4-Dichlorobenzene	8.1E-03 U	5.2E-03 U	5.3E-03 U	5.3E-03 U	7.6E-03 U
1,4-Dioxane	1.9E-02 U	1.2E-02 U	1.3E-02 U	1.3E-02 U	1.8E-02 U
2,2,4-Trimethylpentane	6.3E-03 U	4.0E-03 U	4.1E-03 U	4.1E-03 U	5.9E-03 U
2-Butanone (MEK)	1.6E-02 U	1.0E-02 U	1.0E-02 U	8.4E-02	1.5E-02 U
2-Hexanone	2.2E-02 U	1.4E-02 U	1.4E-02 U	1.4E-02 U	2.1E-02 U
2-Propanol	1.3E-02 U	8.5E-03 U	8.6E-03 U	8.6E-03 U	1.2E-02 U
3-Chloropropene	1.7E-02 U	1.1E-02 U	1.1E-02 U	1.1E-02 U	1.6E-02 U
4-Ethyltoluene	6.6E-03 U	4.2E-03 U	4.3E-03 U	3.0E-02	9.1E-03
4-Methyl-2-pentanone (MIBK)	5.5E-03 U	3.5E-03 U	3.6E-03 U	9.9E-03	5.2E-03 U
Acetone	3.2E-02 U	4.3E-02	4.3E-02	1.2E-01	5.3E-02
alpha-Chlorotoluene	7.0E-03 U	4.5E-03 U	4.5E-03 U	4.6E-03 U	6.5E-03 U
Benzene	4.3E-03 U	5.4E-03	5.4E-03	7.5E-03	7.5E-03
Bromodichloromethane	9.0E-03 U	5.8E-03 U	5.9E-03 U	5.9E-03 U	8.4E-03 U
Bromoform	1.4E-02 U	8.9E-03 U	9.0E-03 U	9.1E-03 U	1.3E-02 U
Bromomethane	5.2E-02 U	3.4E-03 U	3.4E-03 U	3.4E-02 U	4.9E-02 U
Carbon disulfide	1.7E-02 U	1.4E-02	1.4E-02	1.2E-02 J	1.6E-02 U
Carbon tetrachloride	4.1E-02	5.4E-03 U	5.5E-03 U	5.5E-03 U	1.2E-02
Chlorobenzene	6.2E-03 U	4.0E-03 U	4.0E-03 U	4.0E-03 U	5.8E-03 U
Chloroethane	1.4E-02 U	9.1E-03 U	9.2E-03 U	9.3E-03 U	1.3E-02 U
Chloroform	6.6E-03 U	4.2E-03 U	4.3E-03 U	4.3E-03 U	6.2E-03 U
Chloromethane	2.8E-02 U	7.1E-03 U	7.2E-03 U	1.8E-02 U	2.6E-02 U
cis-1,2-Dichloroethene	5.3E-03 U	3.4E-03 U	3.5E-03 U	3.5E-03 U	5.0E-03 U
cis-1,3-Dichloropropene	6.1E-03 U	3.9E-03 U	4.0E-03 U	4.0E-03 U	5.7E-03 U
Cyclohexane	4.6E-03 U	3.0E-03 U	3.0E-03 U	3.0E-03 U	4.3E-03 U
Dibromochloromethane	1.1E-02 U	7.4E-03 U	7.4E-03 U	7.5E-03 U	1.1E-02 U
Dichlorodifluoromethane (Freon 12)	6.4E-02	4.7E-03	5.4E-03	4.4E-03 U	1.4E-02
Dichlorotetrafluoroethane (Freon 114)	9.4E-03 U	6.0E-03 U	6.1E-03 U	6.2E-03 U	8.8E-03 U

TABLE 3

ANALYTICAL RESULTS FOR SOIL VAPOR SAMPLES AT SOIL VAPOR MONITORING POINTS [1,2,3,4,5]

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Concentrations shown in milligrams per cubic meter (mg/m^3)

Analyte	Sample Date	MW-2 10/17/2012	MW-5 10/18/2011	MW-5-Dup 10/18/2011	MW-5 4/18/2012	MW-5 10/17/2012
Ethanol		1.0E-02 U	1.8E-02	1.5E-02	2.0E-02	2.4E-02
Ethylbenzene		5.8E-03 U	3.8E-03 U	3.8E-03 U	3.8E-03 U	5.5E-03 U
Heptane		5.5E-03 U	3.5E-03 U	3.6E-03 U	3.6E-03 U	5.2E-03 U
Hexachlorobutadiene		5.7E-02 U	3.7E-02 U	3.7E-02 U	3.8E-02 U	5.4E-02 U
Hexane		4.7E-03 U	3.0E-03 U	3.1E-03 U	3.1E-03 U	4.4E-03 U
Isopropylbenzene		6.6E-03 U	4.2E-03 U	4.3E-03 U	4.6E-03	6.2E-03 U
m,p-Xylene		5.8E-03 U	5.3E-03	4.9E-03	6.6E-03	1.8E-02
Methyl tert-butyl ether		4.8E-03 U	3.1E-03 U	3.2E-03 U	3.2E-03 U	4.5E-03 U
Methylene chloride		4.7E-02 U	3.2E-03	3.7E-03	3.0E-02 U	4.4E-02 U
n-Propylbenzene		6.6E-03 U	4.2E-03 U	4.3E-03 U	5.0E-03	6.2E-03 U
o-Xylene		5.8E-03 U	3.8E-03 U	3.8E-03 U	5.8E-03	6.1E-03
Styrene		5.7E-03 U	3.7E-03 U	3.7E-03 U	3.7E-03 U	5.4E-03 U
Tetrachloroethene		9.1E-03 U	5.9E-03 U	5.9E-03 U	6.0E-03 U	1.1E-02
Tetrahydrofuran		4.0E-03 U	2.6E-03 U	2.6E-03 U	2.6E-03 U	3.7E-03 U
Toluene		5.1E-03 U	2.0E-02	2.0E-02	2.4E-02	6.1E-02
trans-1,2-Dichloroethene		5.3E-03 U	3.4E-03 U	3.5E-03 U	3.5E-03 U	5.0E-03 U
trans-1,3-Dichloropropene		6.1E-03 U	3.9E-03 U	4.0E-03 U	4.0E-03 U	5.7E-03 U
Trichloroethene		7.2E-03 U	4.6E-03 U	4.7E-03 U	4.7E-03 U	6.8E-03 U
Trichlorofluoromethane (Freon 11)		1.8E+00	3.8E-01	4.0E-01	1.7E-01	1.5E+00
Vinyl chloride		3.4E-03 U	2.2E-03 U	2.2E-03 U	2.2E-03 U	3.2E-03 U

Table 4. Thresholds for Additional Actions for Soil Vapor Samples
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Compound	SGS-Well/SVE Influent	SGS-SP	SGD-SP	SGD-MP	SGD-DP	MW-2	MW-5
Carbon tetrachloride	850	450	180	130	130	6	6
Chloroform	900	480	210	140	140	12	12
1,1-Dichloroethene (1,1-DCE)	2160	1150	470	340	340	7	7
Methylene chloride	530	280	120	80	80	1	1
Tetrachloroethene (PCE)	130	70	30	20	20	4	4
Trichloroethene (TCE)	330	180	80	50	50	2	2
Trichlorofluoromethane (Freon-11)	3870	2060	860	640	640	596	596

Notes:
1. All concentrations are in mg/m^3

Table 5. Input and Output Files for USGS Kendall Program
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Input File to Kendall Program

```
4 0     chloroform SGD-MP November 2009-October2012 - Mann-Kendall test, input type
4
2009.1118        190
2010.1013        150
2011.0420        180
2011.1018        53
2012.0312        240
2012.0329        185
2012.0418        210
```

Out File from Kendall Program

```
   Kendall's tau Correlation Test
     US Geological Survey, 2005

Data set:  chloroform SGD-MP November 2009-April 2012 - Mann-Kendall te

The tau correlation coefficient is  0.036
   S =      1.
   z =   0.000
   p =  1.0000

The relation may be described by the equation:

  Y = -4892.3     +    2.523     * X
```

Table 6. Groundwater Elevations
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	MW-2			MW-3		MW-4		MW-5		
MP Elevation (ft amsl)	3629.73		Note	3632.45		3631.96		3642.28		Note
Date	DTW (ft bgs)[1]	WL (ft amsl)		DTW (ft bgs)[1]	WL (ft amsl)	DTW (ft bgs)[1]	WL (ft amsl)	DTW (ft bgs)[1]	WL (ft amsl)	
1/31/2001	642.70	2987.03		645.30	2987.15	644.81	2987.15	655.32	2986.96	
10/10/2001	642.71	2987.02		645.57	2986.88	644.89	2987.07	654.75	2987.53	
3/27/2002	642.42	2987.31		645.44	2987.01	644.92	2987.04	655.08	2987.20	
10/23/2002	642.34	2987.39		645.48	2986.97	645.23	2986.73	654.96	2987.32	
4/23/2003	642.38	2987.35		645.27	2987.18	645.07	2986.89	664.74	2977.54	2
10/22/2003	642.79	2986.94		645.83	2986.62	645.57	2986.39	662.23	2980.05	2
4/21/2004	642.55	2987.18		645.60	2986.85	645.31	2986.65	664.02	2978.26	2
5/5/2004	642.63	2987.10		645.90	2986.55	645.63	2986.33	655.49	2986.79	
10/13/2004	642.75	2986.98		644.92	2987.53	645.71	2986.25	655.62	2986.66	
4/13/2005	643.47	2986.26		646.08	2986.37	645.81	2986.15	656.67	2985.61	
10/12/2005	644.50	2985.23		647.37	2985.08	647.33	2984.63	657.61	2984.67	
4/12/2006	645.33	2984.40		648.20	2984.25	647.66	2984.30	657.61	2984.67	
10/11/2006	NM			649.16	2983.29	648.96	2983.00	658.00	2984.28	
11/7/2006	646.49	2983.24		NM		NM		652.89	2989.39	2
4/11/2007	646.02	2983.71		649.11	2983.34	648.99	2982.97	658.37	2983.91	
10/24/2007	646.78	2982.95		649.85	2982.60	649.21	2982.75	658.56	2983.72	
4/9/2008	646.79	2982.94		649.29	2983.16	649.18	2982.78	658.67	2983.61	
10/22/2008	647.48	2982.25		649.87	2982.58	649.69	2982.27	659.32	2982.96	
4/8/2009	647.47	2982.26		649.97	2982.48	649.08	2982.88	659.70	2982.58	
10/14/2009	647.97	2981.76		650.61	2981.84	650.47	2981.49	659.88	2982.40	
4/14/2010	574.94	3054.79	2	650.57	2981.88	650.35	2981.61	659.88	2982.40	
10/13/2010	648.95	2980.78		650.36	2982.09	651.28	2980.68	660.74	2981.54	
4/20/2011	649.19	2980.54		651.62	2980.83	651.59	2980.37	661.28	2981.00	
10/18/2011	649.79	2979.94		652.38	2980.07	652.10	2979.86	661.67	2980.61	
4/18/2012	649.95	2979.78		652.58	2979.87	652.51	2979.45	662.04	2980.24	
10/17/2012	650.35	2979.38		652.95	2979.50	652.66	2979.30	662.33	2979.95	

Notes:
1. Depth to water measurements collected by University of Arizona.
2. Anomalous measurement.

Abbreviations:
MP = measuring point
DTW = depth to water
WL = water level
ft = feet
bgs = below ground surface
amsl = above mean sea level
NM = not measured

Table 7. Groundwater Field Parameters
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Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Parameter	MW-2	MW-3	MW-4	MW-5
Temperature (°C)	24.5	24.1	28.2	22.8
Specific Conductance (µmhos)	180	180	180	170
pH (SU)	8.08	8.14	8.19	7.40

Notes:
1. Field parameter measurements were collected by University of Arizona on October 17, 2012.

Abbreviations:
°C = degree Celsius
µmhos = microsiemens
SU = standard unit

TABLE 8
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]
Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per liter (mg/L)

	MW-2			MW-3			MW-4			MW-5			
Analyte / Sample Date	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/17/2012 (DUP)**
Conventionals													
Chloride (Cl^-)	5.7	5.6	5.8	4.7	5.0	5.3	3.3	3.6	3.8	6.2	6.0	6.5	6.7
Sulfate (SO_4)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Metals/Inorganics													
Manganese (Mn)	0.11	0.083	0.1	0.066	0.039	0.047	0.06	0.055	0.066	0.12	0.085	0.10	0.13
Sodium (Na)	34	27	31	32	27	34	29	25	31	31	26	31	30
VOCs[2]													
1,1,1,2-Tetrachloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1,1-Trichloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1,2,2-Tetrachloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1,2-Trichloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1-Dichloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1-Dichloroethene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,1-Dichloropropene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2,3-Trichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2,3-Trichloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2,4-Trichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2,4-Trimethylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dichloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dichloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,3,5-Trimethylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,3-Dichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,3-Dichloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,4-Dichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
2,2-Dichloropropane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
2-Chlorotoluene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
4-Chlorotoluene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
4-Isopropyltoluene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Benzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromochloromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromodichloromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromoform	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Bromomethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Carbon tetrachloride	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chloroethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chloroform	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Chloromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
cis-1,2-Dichloroethene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U

TABLE 8
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]
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Pinal County, Arizona

Concentrations shown in milligrams per liter (mg/L)

	MW-2			MW-3			MW-4			MW-5			
Analyte Sample Date	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/17/2012 (DUP)**
Dibromochloromethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Dibromomethane	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Dichlorodifluoromethane (Freon 12)	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Ethylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Hexachlorobutadiene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Isopropylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Methylene chloride	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Naphthalene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
n-Butylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
n-Propylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
sec-Butylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Styrene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
tert-Butylbenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Tetrachloroethene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Toluene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
trans-1,2-Dichloroethene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
trans-1,3-Dichloropropene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Trichlorofluoromethane (Freon 11)	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Trihalomethanes, total	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Vinyl chloride	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Xylenes, total	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
Pesticides/PCBs													
4,4'-DDD	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
4,4'-DDE	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
4,4'-DDT	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Aldrin	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
alpha-BHC	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
alpha-Chlordane	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
beta-BHC	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
delta-BHC	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Dieldrin	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Endosulfan I	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Endosulfan II	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Endosulfan sulfate	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Endrin	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Endrin aldehyde	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Endrin ketone	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
gamma-BHC	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
gamma-Chlordane	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Heptachlor	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Heptachlor epoxide	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U

TABLE 8
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]
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Concentrations shown in milligrams per liter (mg/L)

	MW-2			MW-3			MW-4			MW-5			
Analyte Sample Date	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/17/2012 (DUP)**
Methoxychlor	0.000096 U	0.000099 U	0.0001 U	0.000097 U	0.000098 U	0.0001 U	0.000097 U	0.000099 U	0.000099 U	0.000096 U	0.000099 U	0.0001 U	0.0001 U
Toxaphene	0.000000096 U	0.00099 U	0.001 U	0.000000097 U	0.00098 U	0.001 U	0.000000097 U	0.00099 U	0.00099 U	0.000000096 U	0.00099 U	0.001 U	0.001 U
SVOCs													
1,2,4-Trichlorobenzene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
1,2-Dichlorobenzene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
1,3-Dichlorobenzene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
1,4-Dichlorobenzene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2,4,5-Trichlorophenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2,4,6-Trichlorophenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2,4-Dichlorophenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2,4-Dimethylphenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2,4-Dinitrophenol	0.049 U	0.05 U	0.05 U	0.049 U	0.05 U	0.05 U	0.048 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4-Dinitrotoluene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2,6-Dinitrotoluene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2-Chloronaphthalene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2-Chlorophenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2-Methyl-4,6-dinitrophenol	0.020 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2-Methylnaphthalene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Methylphenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
2-Nitroaniline	0.020 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2-Nitrophenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
3,3´-Dichlorobenzidine	0.020 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
3-Nitroaniline	0.020 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4-Bromophenyl phenyl ether	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
4-Chloro-3-methylphenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
4-Chloroaniline	0.020 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4-Chlorophenyl phenyl ether	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
4-Methylphenol	0.0098 U	--	0.01 U	0.0098 U	--	0.01 U	0.0097 U	--	0.0099 U	0.01 U	--	0.0099 U	0.0099 U
4-Nitroaniline	0.020 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
4-Nitrophenol	0.049 U	0.05 U	0.05 U	0.049 U	0.05 U	0.05 U	0.048 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Acenaphthylene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Aniline	0.020 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Anthracene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Benz(a)anthracene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Benzo(a)pyrene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Benzo(b/k)fluoranthenes	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Benzo(g,h,i)perylene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Benzoic acid	0.049 U	0.05 U	0.05 U	0.049 U	0.05 U	0.05 U	0.048 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzyl alcohol	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bis(2-chloroethoxy)methane	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Bis(2-chloroethyl) ether	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U

TABLE 8
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]
Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per liter (mg/L)

	MW-2			MW-3			MW-4			MW-5			
Analyte / Sample Date	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/18/2011**	**4/18/2012**	**10/17/2012**	**10/17/2012 (DUP)**
Bis(2-chloroisopropyl) ether	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Bis(2-ethylhexyl) phthalate	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Butyl benzyl phthalate	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Chrysene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibenz(a,h)anthracene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibenzofuran	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Diethyl phthalate	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Dimethyl phthalate	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Di-n-butyl phthalate	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Di-n-octyl phthalate	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Fluoranthene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Fluorene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Hexachlorobenzene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Hexachlorobutadiene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Hexachlorocyclopentadiene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Hexachloroethane	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Hexachloropropene	0.0049 U	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Isophorone	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Naphthalene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Nitrobenzene	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
N-Nitrosodimethylamine	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
N-Nitroso-di-n-propylamine	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
N-Nitrosodiphenylamine	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Pentachlorophenol	.0.029 U	0.03 U	0.03 U	0.029 U	0.03 U	0.03 U	0.029 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Phenanthrene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Phenol	0.0098 U	0.01 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.0097 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.0099 U	0.0099 U
Pyrene	0.0049 U	0.005 U	0.005 U	0.0049 U	0.005 U	0.005 U	0.0048 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

Notes
1. Data qualifiers are as follows:
   -- = no data available.
   ND = not detected; no numerical value available for detection limit or reporting limit.
   U = analyte not detected at reporting limit indicated.
2. VOCs by EPA Method 524.2.

Abbreviations
EDB = ethylene dibromide
EPA = US Environmental Protection Agency
MEK = methyl ethyl ketone
MIBK = methyl isobutyl ketone
PCBs = polychlorinated biphenyls
SVOCs = semivolatile organic compounds
VOCs = volatile organic compounds

Table 9. Alert Levels for Organic Constituents in Groundwater Samples

Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Concentrations shown in milligrams per liter (mg/L)

Analyte	MCL	Alert Level
Polychlorinated Biphenyls (PCBs)	0.0005	0.0004
Pesticides		
Chlordane	0.002	0.0016
Endrin	0.002	0.0016
Heptachlor	0.0004	0.00032
Heptachlor epoxide	0.0002	0.00016
Lindane	0.0002	0.00016
Methoxychlor	0.04	0.032
Toxaphene	0.003	0.0024
Semivolatile Organic Compounds		0
1,2,4-Trichlorobenzene	0.07	0.056
1,2-Dichlorobenzene	0.6	0.48
1,4-Dichlorobenzene	0.075	0.06
Benzo(a)pyrene	0.0002	0.00016
Bis(2-ethylhexyl) phthalate	0.006	0.0048
Hexachlorobenzene	0.001	0.0008
Hexachlorocyclopentadiene	0.05	0.04
Pentachlorophenol	0.001	0.0008
Volatile Organic Compounds		
1,1,1-Trichloroethane	0.2	0.16
1,1,2-Trichloroethane	0.005	0.004
1,1-Dichloroethene	0.007	0.0056
1,2-Dibromo-3-chloropropane	0.0002	0.00016
Ethylene Dibromide (EDB)	0.00005	0.00004
1,2-Dichlorobenzene	0.6	0.48
1,2-Dichloroethane	0.005	0.004
1,2-Dichloropropane	0.005	0.004
1,4-Dichlorobenzene	0.075	0.06
Benzene	0.005	0.004
Carbon tetrachloride	0.005	0.004
Chlorobenzene	0.1	0.08
cis-1,2-Dichloroethene	0.07	0.056
Ethylbenzene	0.7	0.56
Methylene chloride	0.005	0.004
Styrene	0.1	0.08
Tetrachloroethene	0.005	0.004
Toluene	1	0.8
trans-1,2-Dichloroethene	0.1	0.08
Trichloroethene	0.005	0.004
Trihalomethanes	0.08	0.064
Vinyl chloride	0.002	0.0016
Xylenes, total	10	8

Notes

1. Only chemicals that have primary MCLs are listed.
2. Primary MCLs obtained from National Primary Drinking Water Regulations (EPA 816-F-09-0004, May 2009).
3. Alert levels are calculated as 80% of MCLs.

Abbreviations

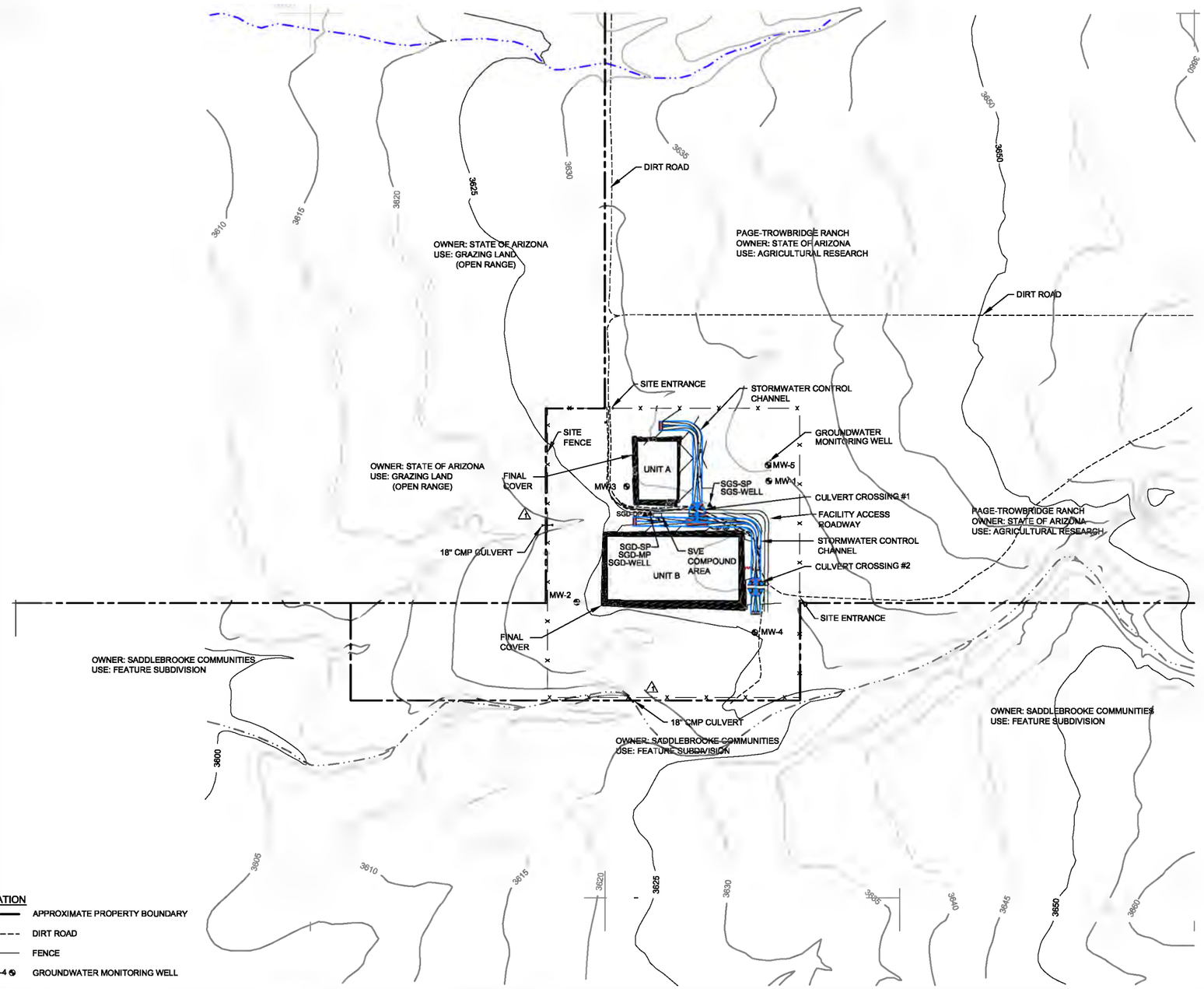
EPA = US Environmental Protection Agency
MCLs = maximum contaminant levels

Table 10. Alert Levels for Inorganic Constituents in Groundwater Samples
Semi-Annual Monitoring Report
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

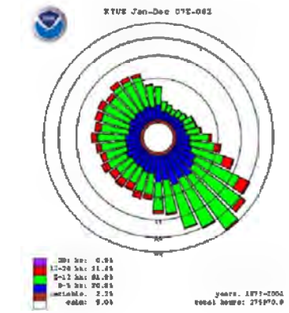
Parameter	Alert Levels
MW-2	
Chloride (Cl^-)	9.045
Sulfate (SO_4^{2-})	7.954
Manganese (Mn)	6.8
Sodium (Na)	47
MW-3	
Chloride (Cl^-)	9.135
Sulfate (SO_4^{2-})	7.757
Manganese (Mn)	7.72
Sodium (Na)	52
MW-4	
Chloride (Cl^-)	9.65
Sulfate (SO_4^{2-})	6.686
Manganese (Mn)	0.412
Sodium (Na)	45
MW-5	
Chloride (Cl^-)	8.992
Sulfate (SO_4^{2-})	6.339
Manganese (Mn)	0.88
Sodium (Na)	54

Notes:
1. All concentrations are in unit mg/L, except noted otherw
2. "-" = not applicable.

FIGURES

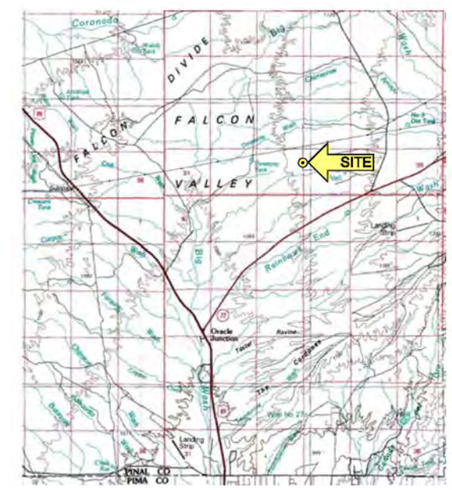


ALL WEATHER WINDROSE



SOURCE: U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER RECORD CENTER FOR YEARS JANUARY 1973 TO DECEMBER 2004.

LOCATION MAP



SOURCE: USGS MAMMOTH, ARIZONA 1986
1:100000 SCALE

EXPLANATION

- APPROXIMATE PROPERTY BOUNDARY
- DIRT ROAD
- FENCE
- MW-4 GROUNDWATER MONITORING WELL
- SGD-DP SOIL VAPOR MONITORING POINT

NOTE:
1. PROPERTY BOUNDARIES ARE BASED ON SURVEY MAP BY MMLA (8/2/1996)

SOURCE: STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, PHOENIX, ARIZONA DECEMBER 12, 1997.

REV	D	M	Y	ISSUE/REVISION DESCRIPTION	ENG.	APPR.
G						
F						
E						
D						
C						
B						
A						

Client Logo:

Client:
UNIVERSITY OF ARIZONA
P.O. BOX 210460
TUCSON, AZ. 85721-0460

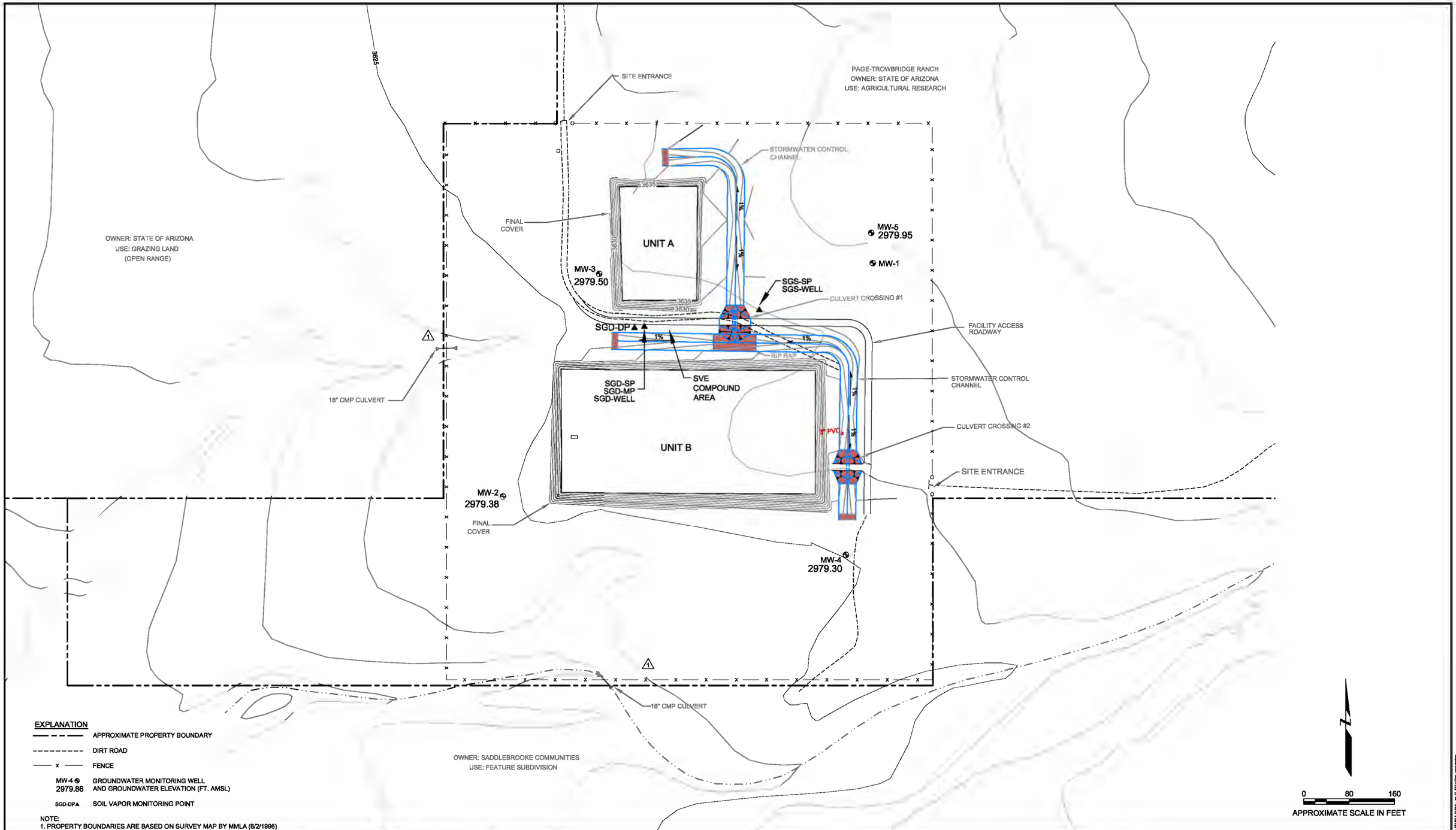
AMEC
Environment & Infrastructure, Inc.
4600 East Washington Street, Suite 600,
Phoenix, Arizona 85034

DATUM: –
PROJECTION: –
DRAWN BY: APS
REVIEWED BY: MZ
ORIGINAL SCALE: AS SHOWN

PROJECT: PAGE - TROWBRIDGE RANCH LANDFILL (EPA ID AZ98066584)

TITLE: GROUNDWATER AND SOIL VAPER MONITORING POINTS

PROJECT NO.: 1420112030
REVISION NO. A
DATE: JUNE 2012
DRAWING NO.: FIGURE 1
SHEET NO.: _ of _



EXPLANATION

- APPROXIMATE PROPERTY BOUNDARY
- DIRT ROAD
- FENCE
- MW-4 2979.86 — GROUNDWATER MONITORING WELL AND GROUNDWATER ELEVATION (FT. AMSL)
- SGD-DP▲ — SOIL VAPOR MONITORING POINT

NOTE:
1. PROPERTY BOUNDARIES ARE BASED ON SURVEY MAP BY MMLA (8/2/1996)

SOURCE: STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, PHOENIX, ARIZONA DECEMBER 12, 1997.

REV	D	M	Y	ISSUE/REVISION DESCRIPTION	ENG.	APPR.
A						
B						
C						
D						
E						
F						
G						

Client Logo:

Client:
UNIVERSITY OF ARIZONA
P.O. BOX 210460
TUCSON, AZ. 85721-0460

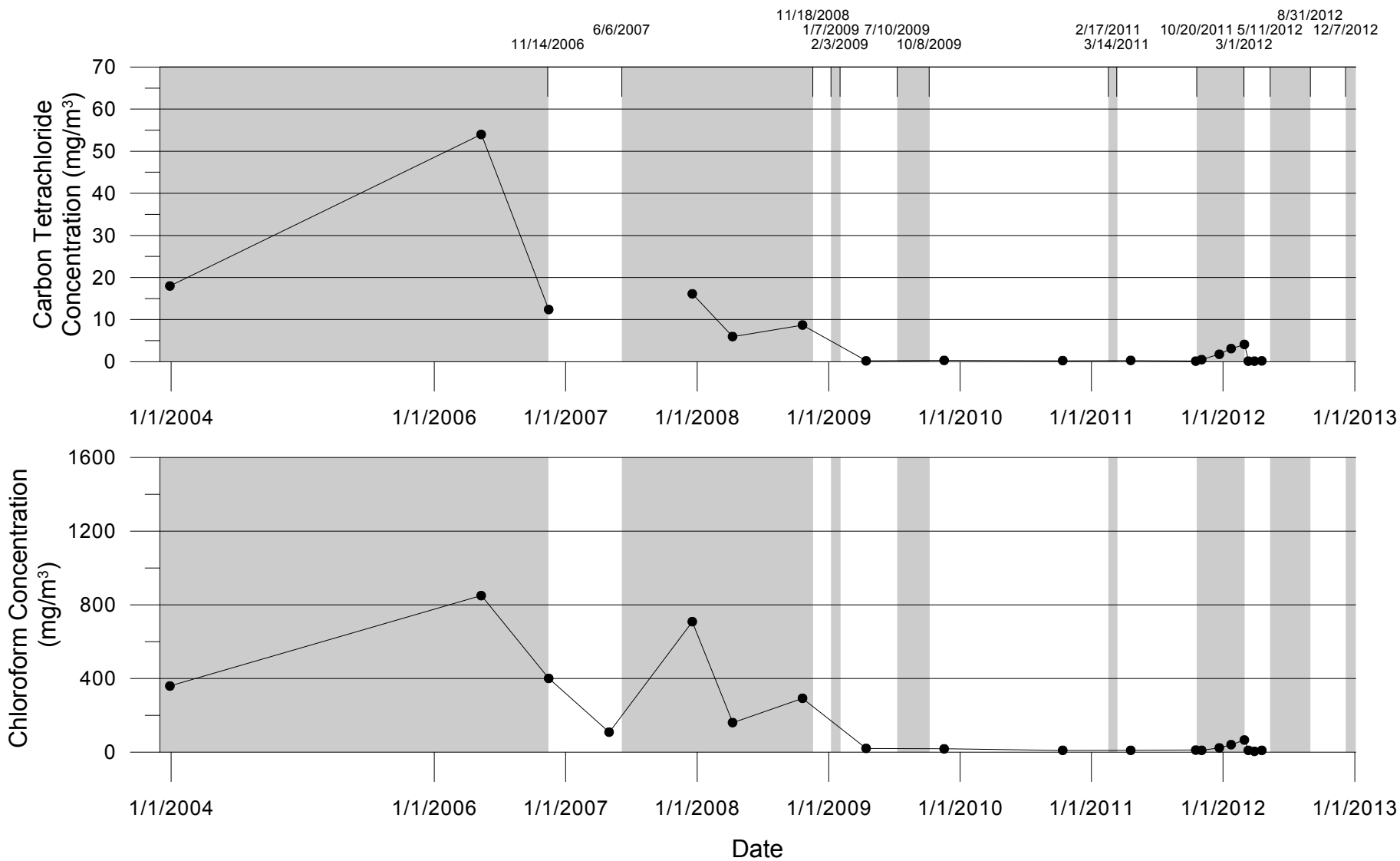
AMEC
Environment & Infrastructure, Inc.
4600 East Washington Street, Suite 600,
Phoenix, Arizona 85034

DATUM: –
PROJECTION: –
DRAWN BY: APS
REVIEWED BY: MZ
ORIGINAL SCALE: AS SHOWN

PROJECT: PAGE - TROWBRIDGE RANCH LANDFILL (EPA ID AZ98066584)

TITLE: GROUNDWATER ELEVATIONS OCTOBER 17, 2012

PROJECT NO.: 1420112030
REVISION NO.: A
DATE: JANUARY 2013
DRAWING NO.: FIGURE 2
SHEET NO.: _ of _



LEGEND

● Consituent concentration is above the reporting limit.

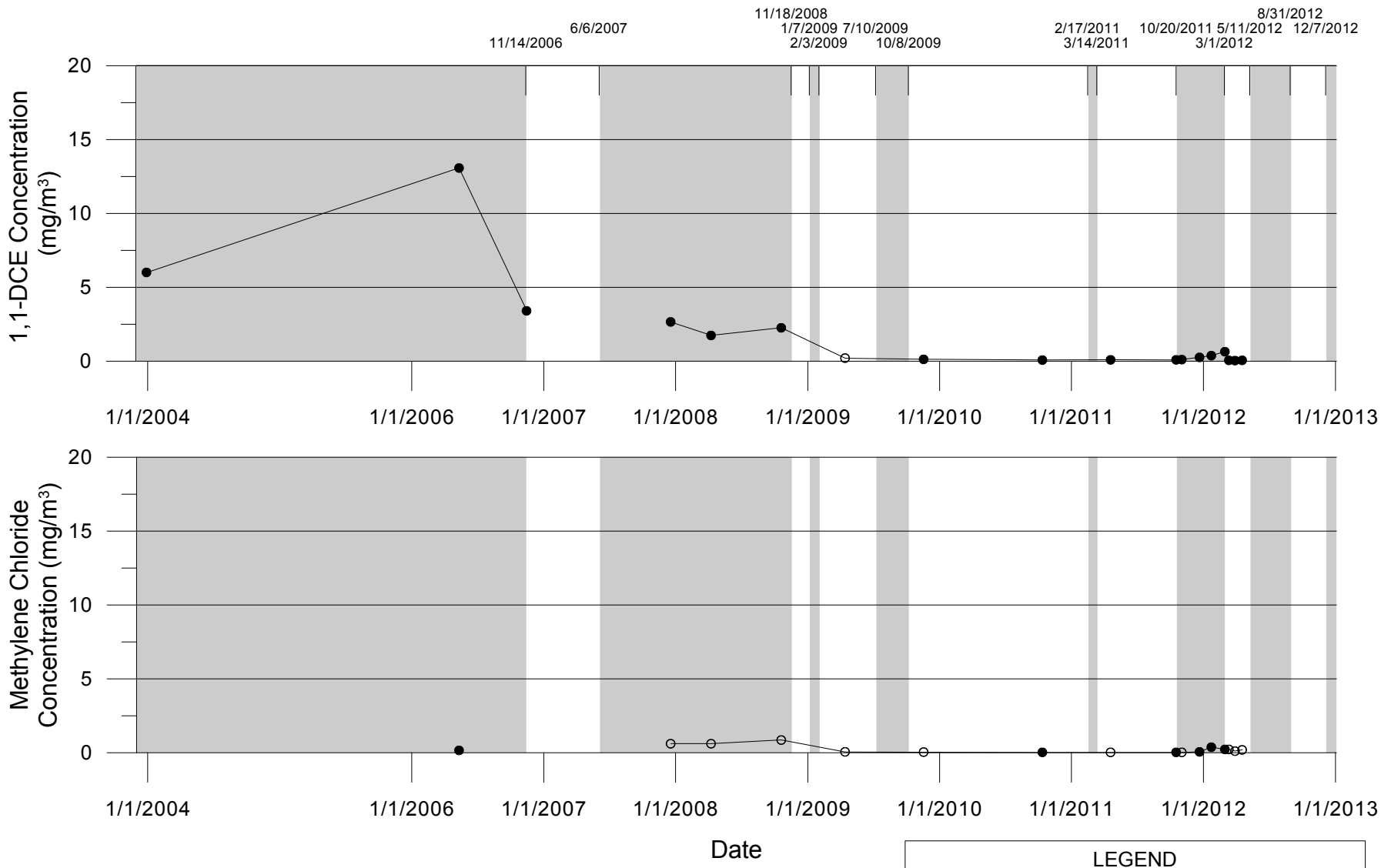
Soil vapor extraction system was nonoperational.

Note:
1.) A discontinuous line occurs where the the constituent concentration was nondetect and the reporting limit was not provided.

Abbreviations:
mg = milligrams
m = meter

amec	SGS-SP CARBON TETRACHLORIDE AND CHLOROFORM CONCENTRATION TRENDS Page-Trowbridge Ranch Landfill Pinal County, Arizona	Prepared By: ERO	Project No. 1420112039
		1/9/13	Figure No. 3a

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



LEGEND

- ● Constituent concentration is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

Note:
1.) A discontinuous line occurs where the constituent concentration was nondetect and the reporting limit was not provided.

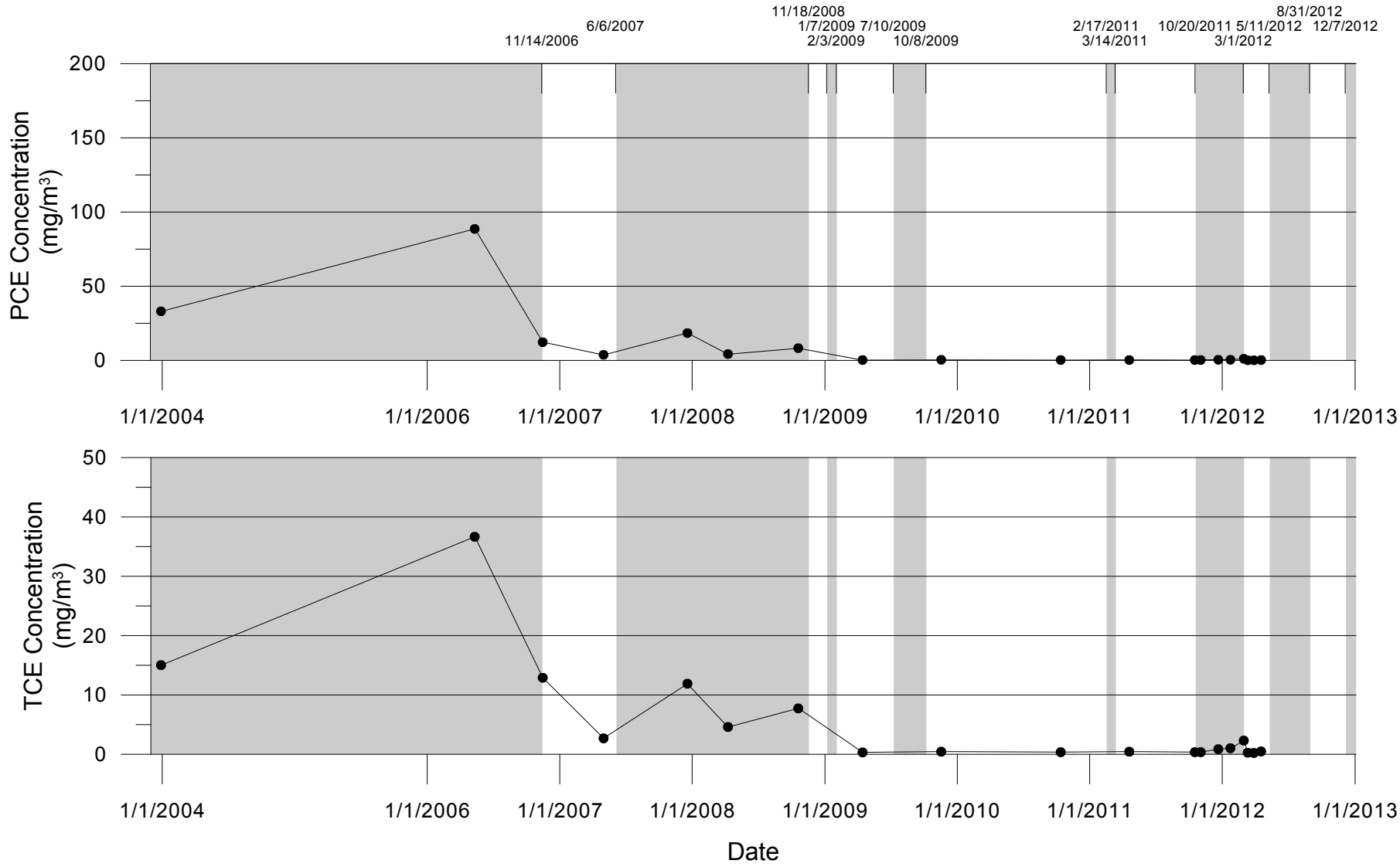
Abbreviations:
1,1-DCE = 1,1 Dichloroethene
mg = milligrams
m = meter

amec

SGS-SP 1,1-DCE AND METHYLENE CHLORIDE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3b

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



Abbreviations:
PCE = Tetrachloroethene
TCE = Trichloroethene
mg = milligrams
m = meter

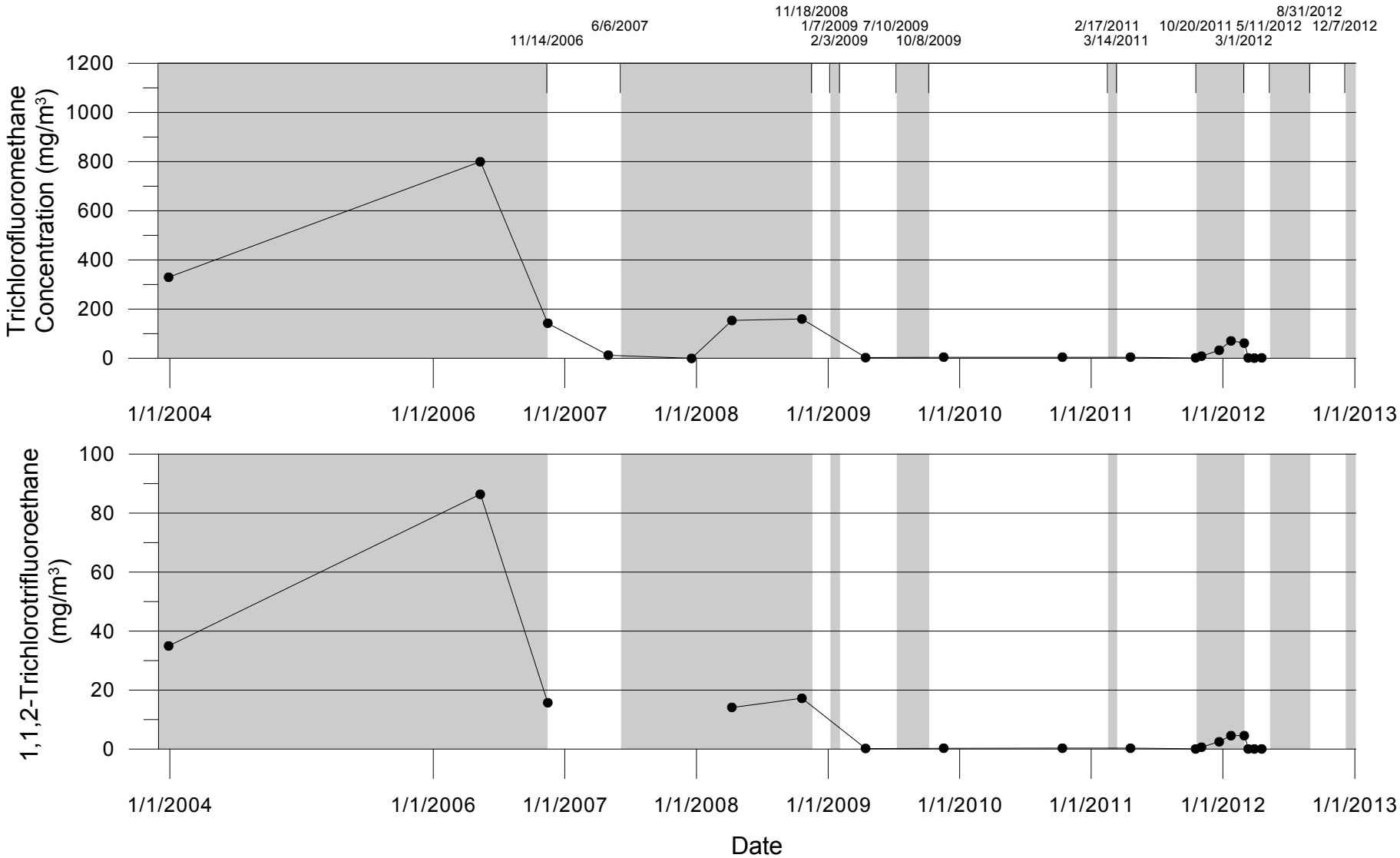
LEGEND
● Constituent concentration is above the reporting limit.
Soil vapor extraction system was nonoperational.

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf

amec

SGS-SP PCE AND TCE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3c



LEGEND

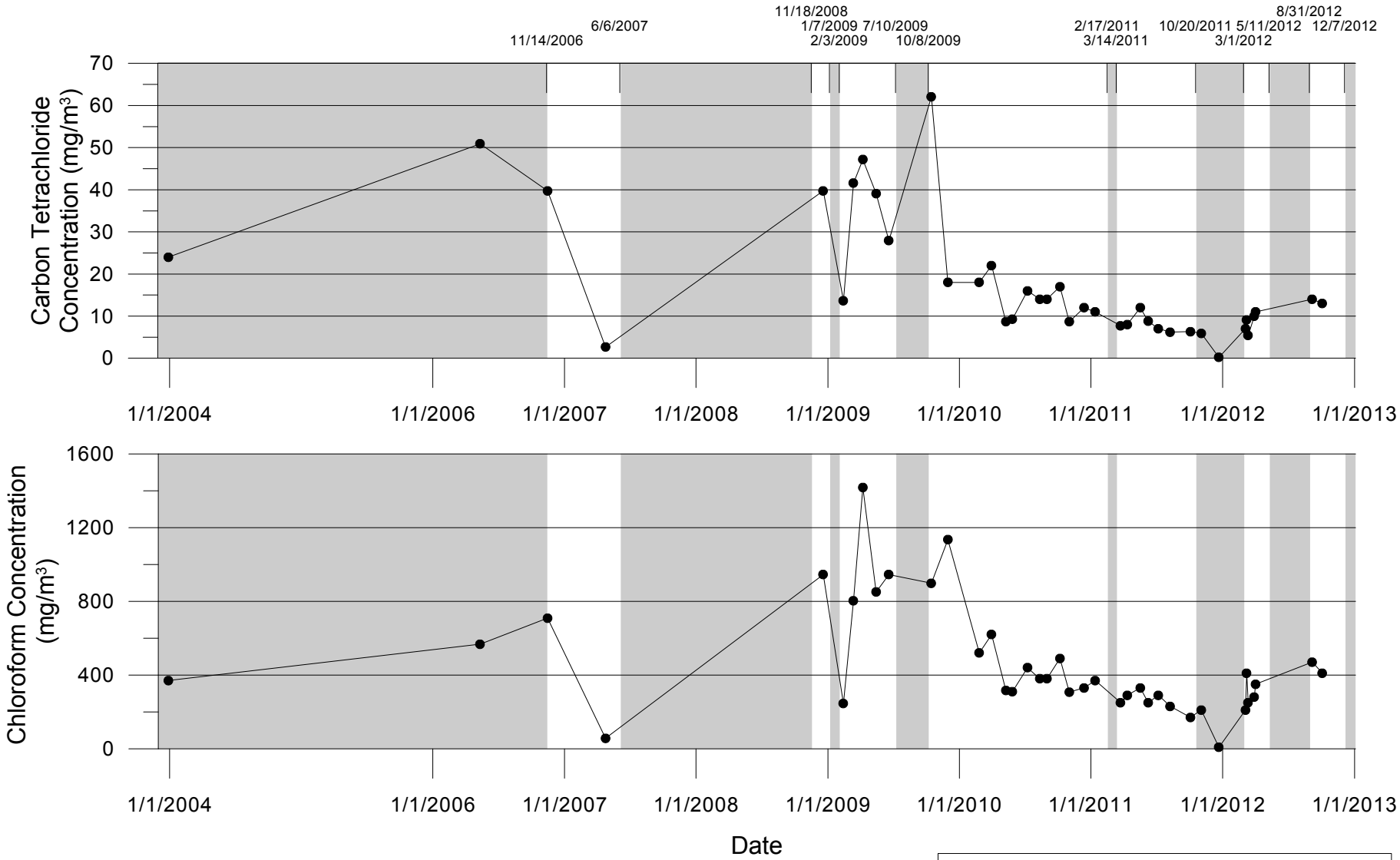
- ● Consituent concentration is above the reporting limit.
- Soil vapor extraction system was nonoperational.

Note:
1.) A discontinuous line occurs where the the constituent concentration was nondetect and the reporting limit was not provided.

Abbreviations:
mg = milligrams
m = meter

amec	SGS-SP TRICHLOROFLUOROMETHANE AND 1,1,2-TRICHLOROTRIFLUOROETHANE CONCENTRATION TRENDS Page-Trowbridge Ranch Landfill Pinal County, Arizona	Prepared By: ERO	Project No. 1420112039
		1/9/13	Figure No. 3d

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



LEGEND

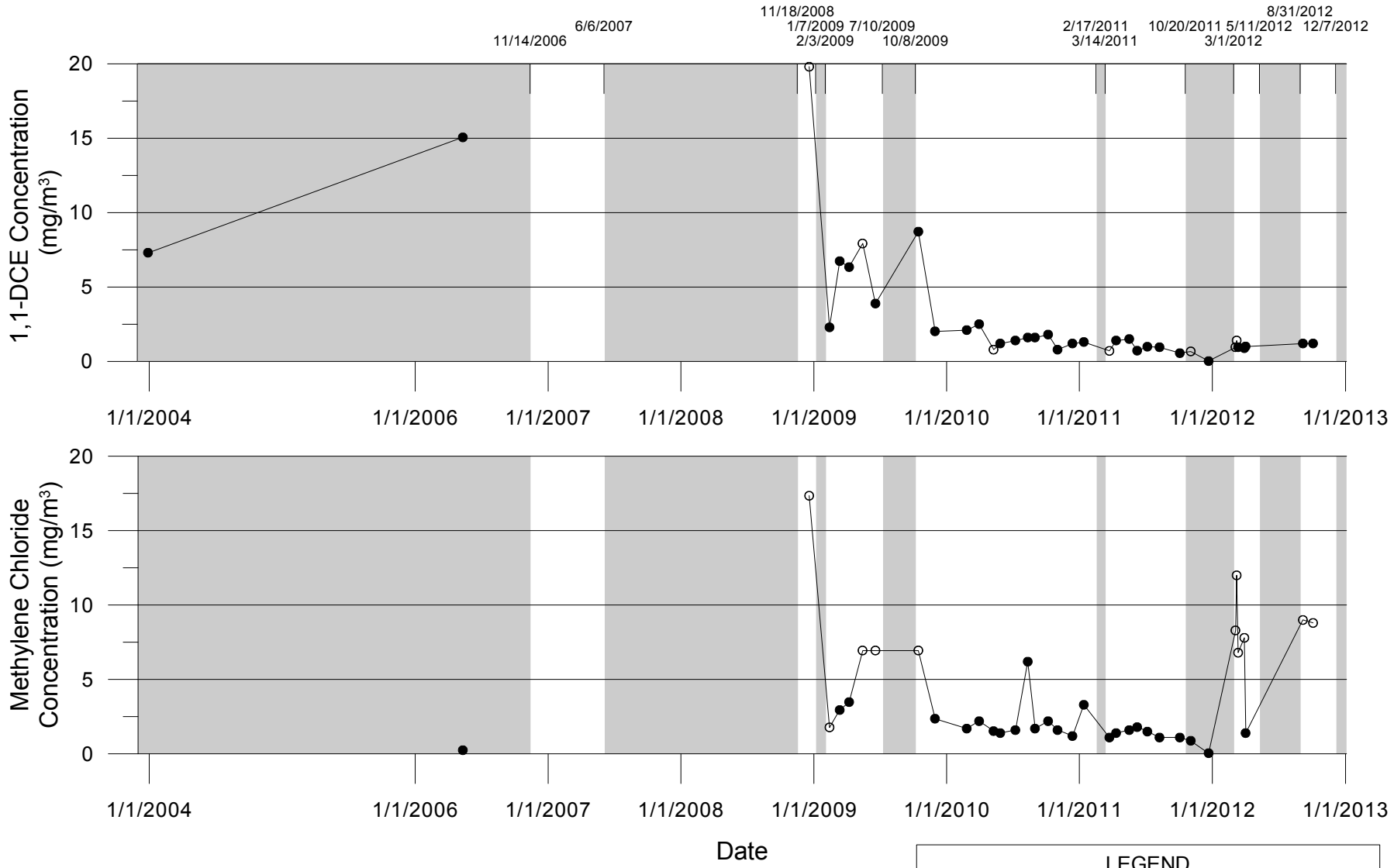
- ● Consituent concentration is above the reporting limit.
- Soil vapor extraction system was nonoperational.

Note:
1.) For field duplicates collected on 3/5/12 and 3/8/12, concentrations from the original and duplicate sample were compared and the higher value is plotted.

Abbreviations:
mg = milligrams
m = meter

amec	SGS-WELL CARBON TETRACHLORIDE AND CHLOROFORM CONCENTRATION TRENDS Page-Trowbridge Ranch Landfill Pinal County, Arizona	Prepared By: ERO	Project No. 1420112039
		1/9/13	Figure No. 3e

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



Note:
1.) A discontinuous line occurs where the constituent concentration was nondetect and the reporting limit was not provided.
2.) For field duplicates collected on 3/5/12 and 3/8/12, concentrations from the original and duplicate sample were compared and the higher value is plotted.

Abbreviations:
1,1-DCE = 1,1 Dichloroethene
mg = milligrams
m = meter

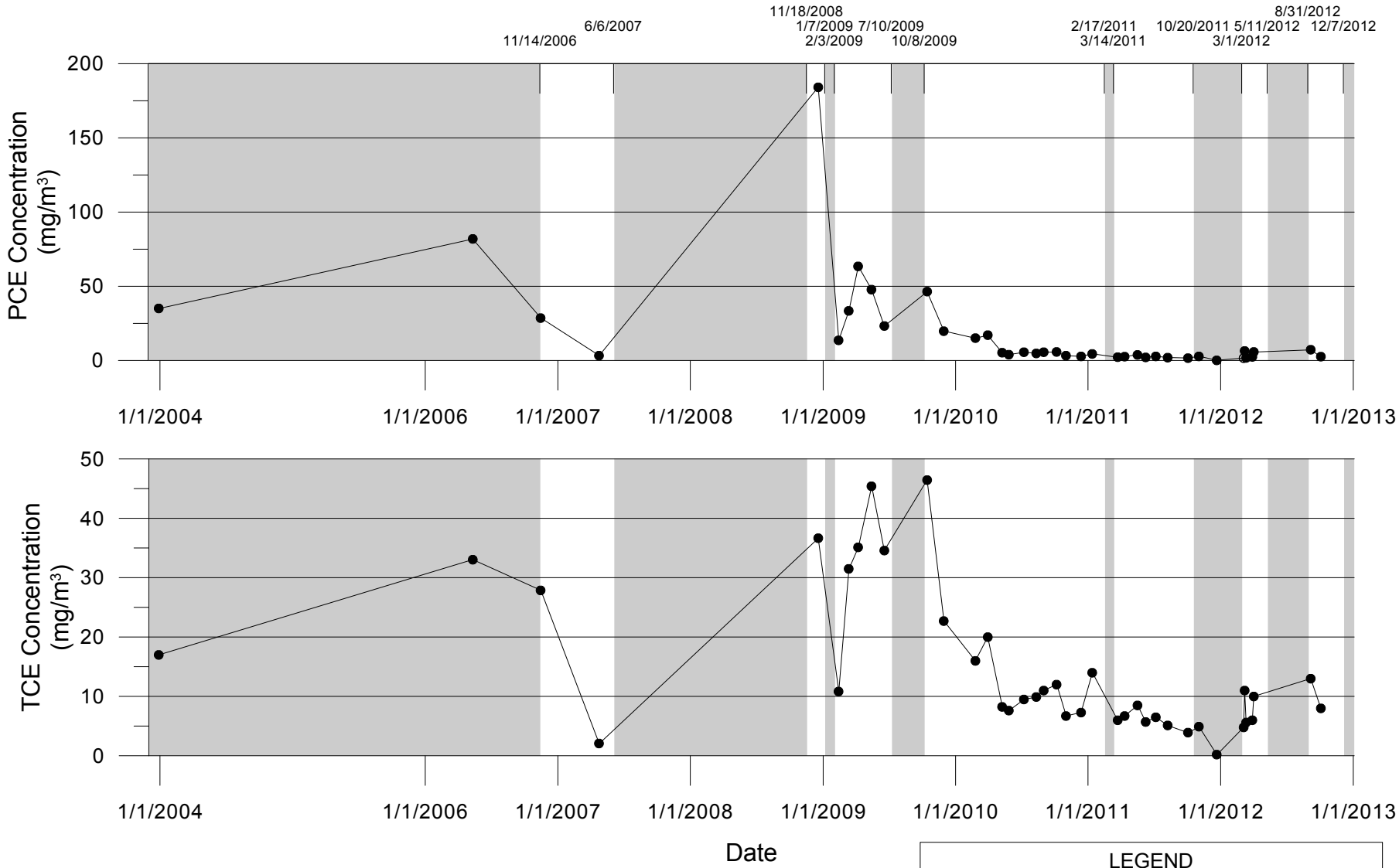
LEGEND
- ● Constituent concentration is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

amec

SGS-WELL 1,1-DCE AND METHYLENE CHLORIDE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3f

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



Abbreviations:
PCE = Tetrachloroethene
TCE = Trichloroethene
mg = milligrams
m = meter

LEGEND

- ● Constituent concentration is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

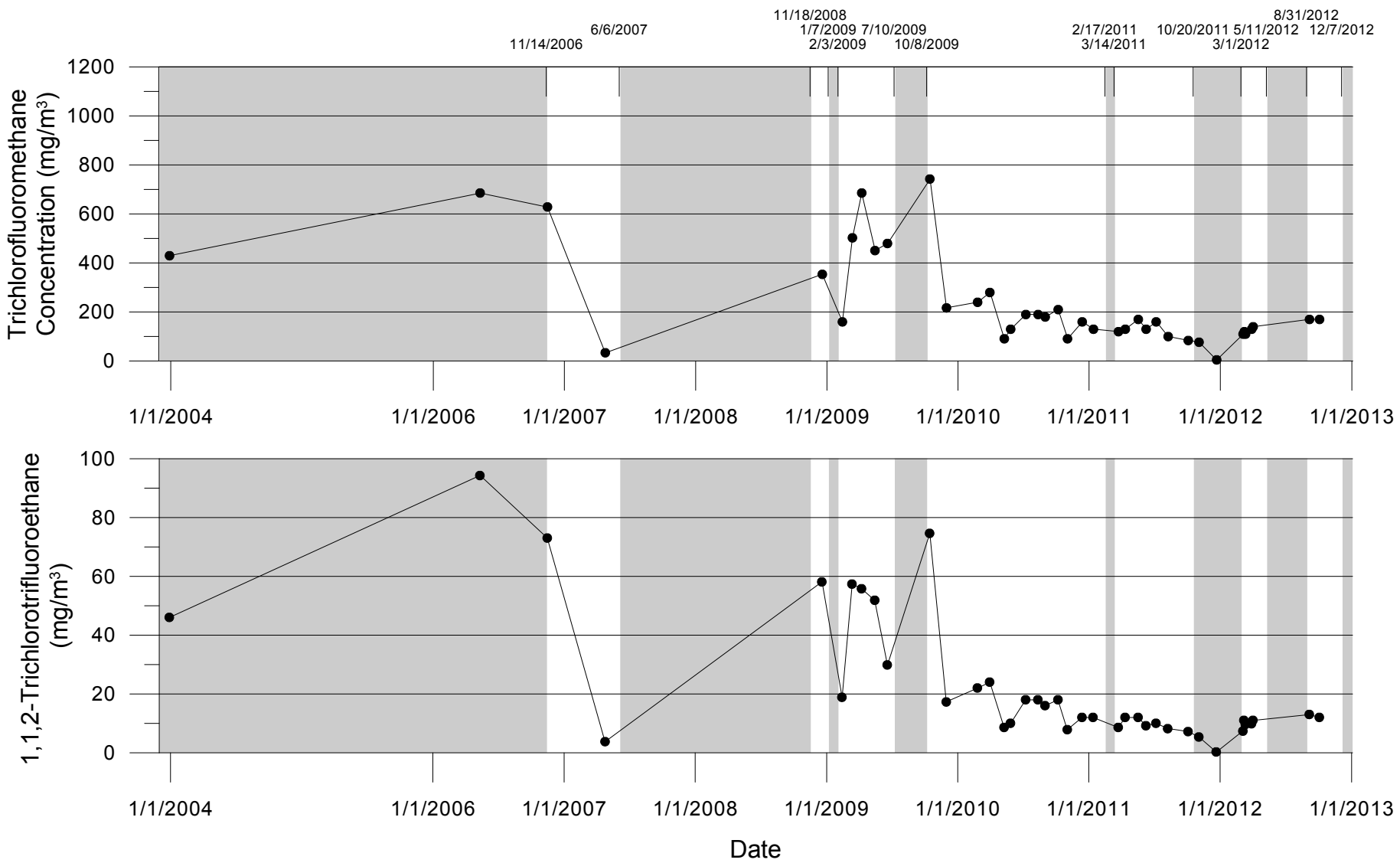
Note:
1.) For field duplicates collected on 3/5/12 and 3/8/12, concentrations from the original and duplicate sample were compared and the higher value is plotted.

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf

amec

SGS-WELL PCE AND TCE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3g



LEGEND

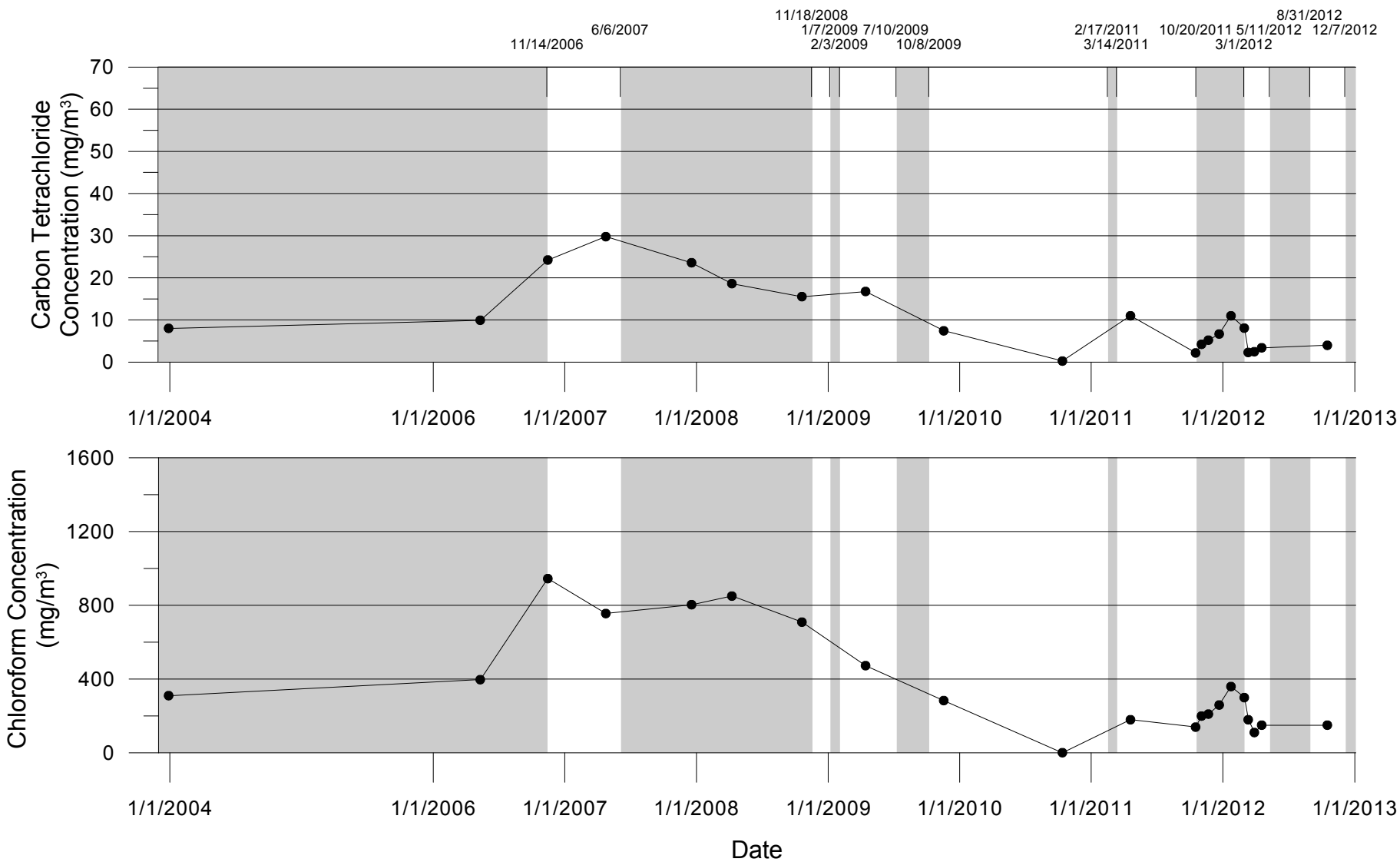
- ● Constituent concentration is above the reporting limit.
- Soil vapor extraction system was nonoperational.

Note:
1.) For field duplicates collected on 3/5/12 and 3/8/12, concentrations from the original and duplicate sample were compared and the higher value is plotted.

Abbreviations:
mg = milligrams
m = meter

amec	SGS-WELL TRICHLOROFLUOROMETHANE AND 1,1,2-TRICHLOROTRIFLUOROETHANE CONCENTRATION TRENDS Page-Trowbridge Ranch Landfill Pinal County, Arizona	Prepared By: ERO	Project No. 1420112039
		1/9/13	Figure No. 3h

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



LEGEND

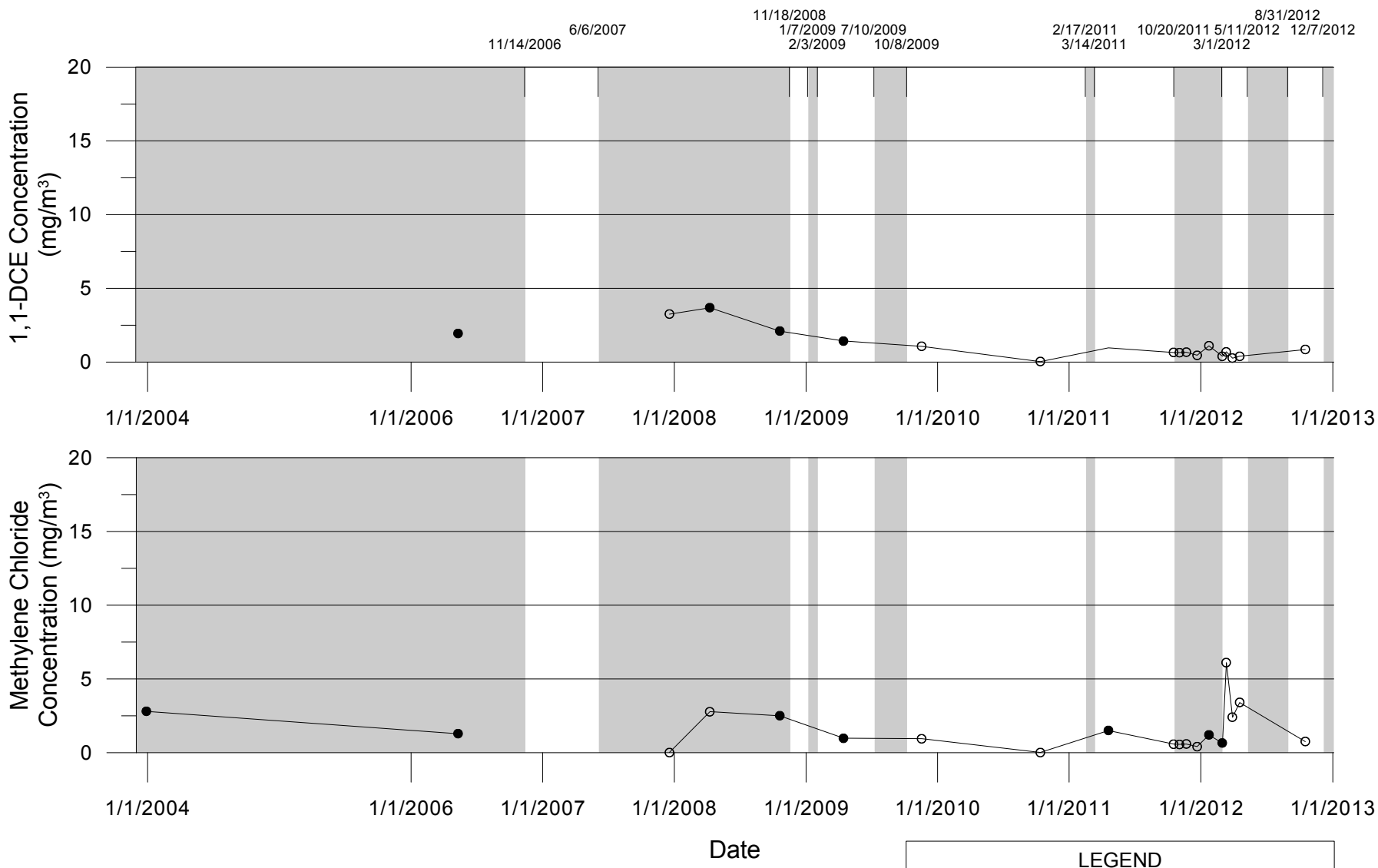
● Consituent value is above the reporting limit.

Soil vapor extraction system was nonoperational.

Abbreviations:
mg = milligrams
m = meter

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf

amec	SGD-SP CARBON TETRACHLORIDE AND CHLOROFORM CONCENTRATION TRENDS Page-Trowbridge Ranch Landfill Pinal County, Arizona	Prepared By: ERO	Project No. 1420112039
		1/9/13	Figure No. 3i



LEGEND

- ● Constituent value is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

Note:
1.) A discontinuous line occurs where the constituent concentratioon was nondetect and the reporting limit was not provided.

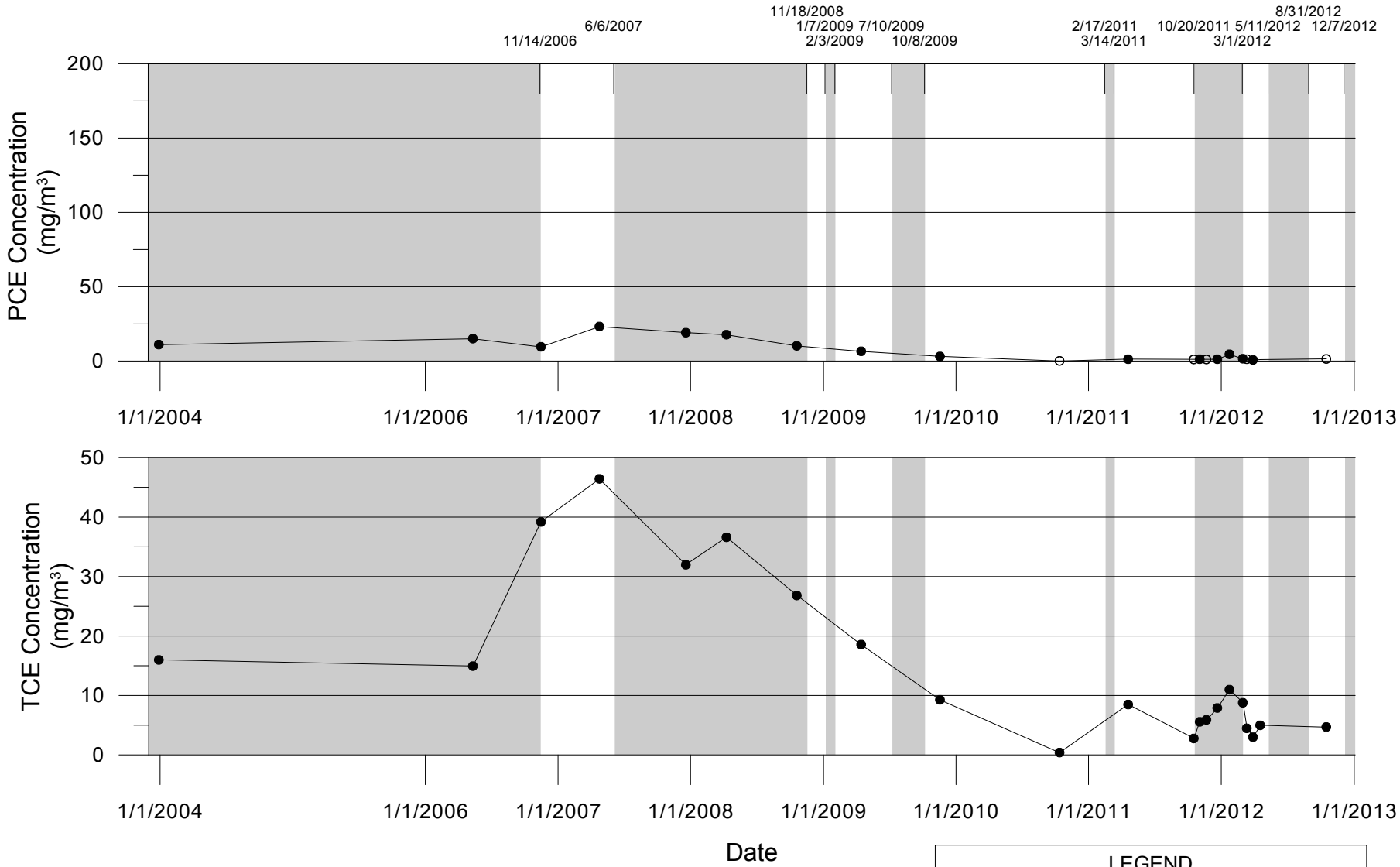
Abbreviations:
1,1-DCE = 1,1 Dichloroethene
mg = milligrams
m = meter

amec

SGD-SP 1,1-DCE AND METHYLENE CHLORIDE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3j

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



Abbreviations:
PCE = Tetrachloroethene
TCE = Trichloroethene
mg = milligrams
m = meter

LEGEND

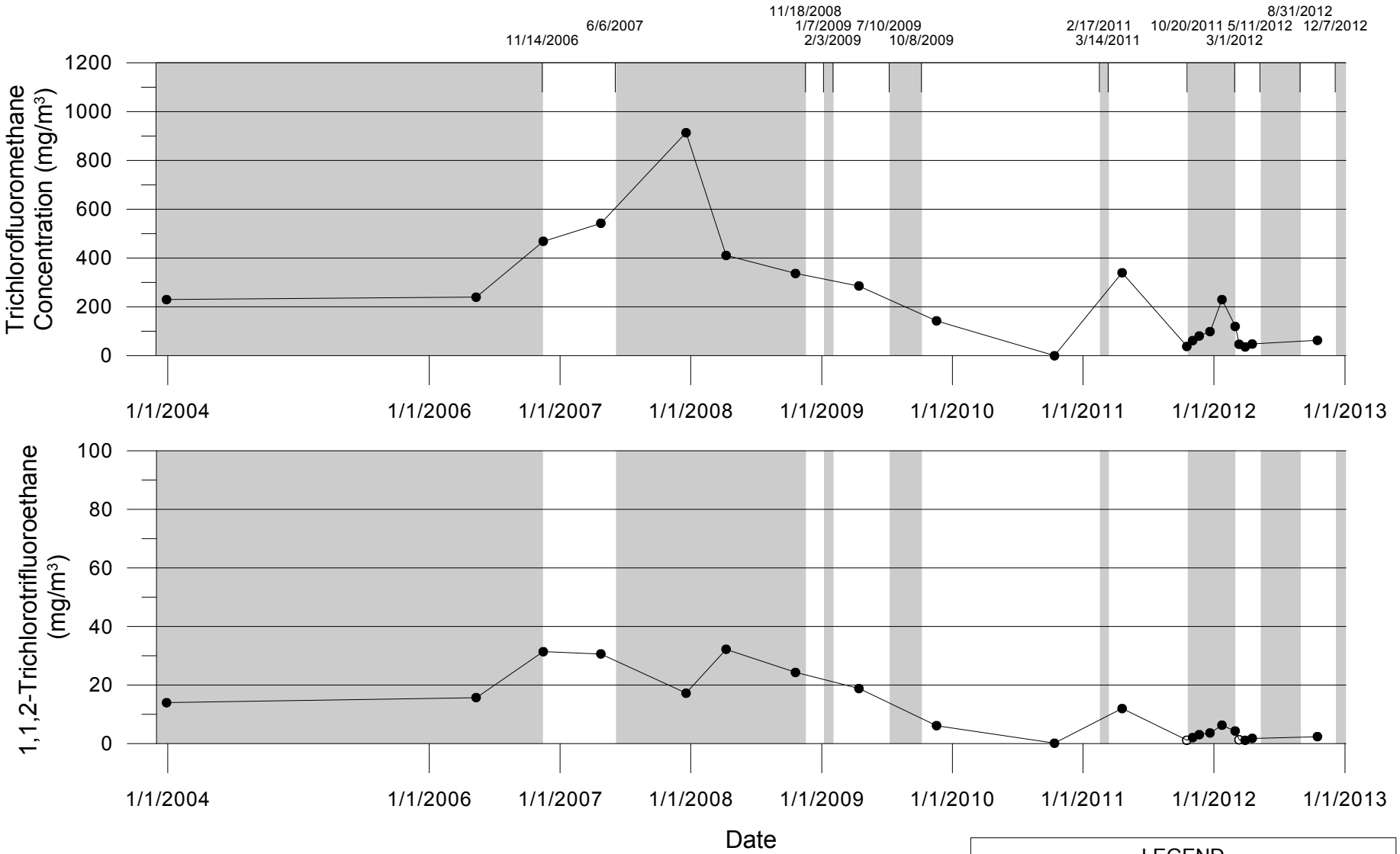
- ● Consitituent value is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf

amec

SGD-SP PCE AND TCE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3k



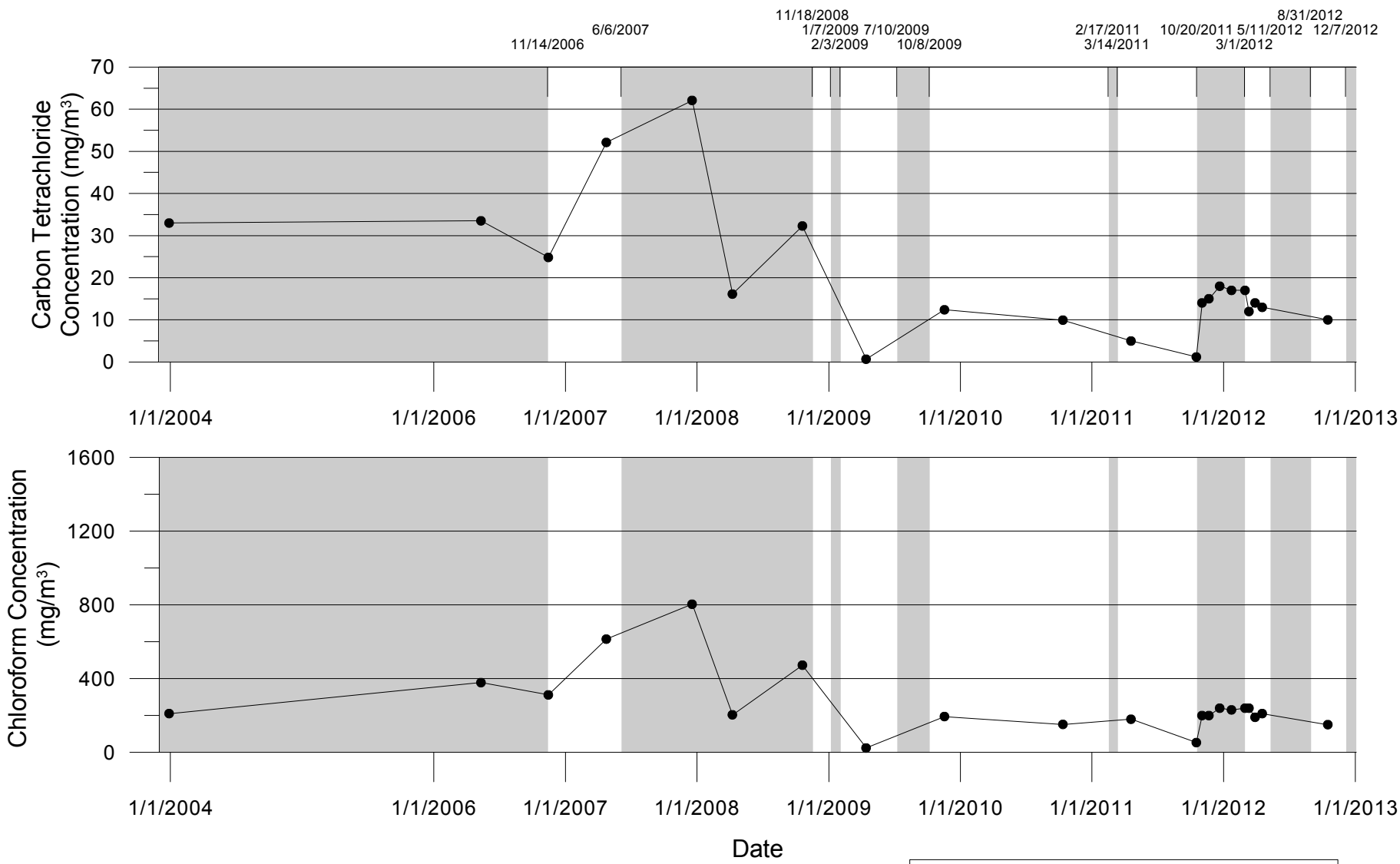
LEGEND

- ● Constituent value is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

Abbreviations:
mg = milligrams
m = meter

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf

amec	SGD-SP TRICHLOROFLUOROMETHANE AND 1,1,2-TRICHLOROTRIFLUOROETHANE CONCENTRATION TRENDS Page-Trowbridge Ranch Landfill Pinal County, Arizona	Prepared By: ERO	Project No. 1420112039
		1/9/13	Figure No. 3I



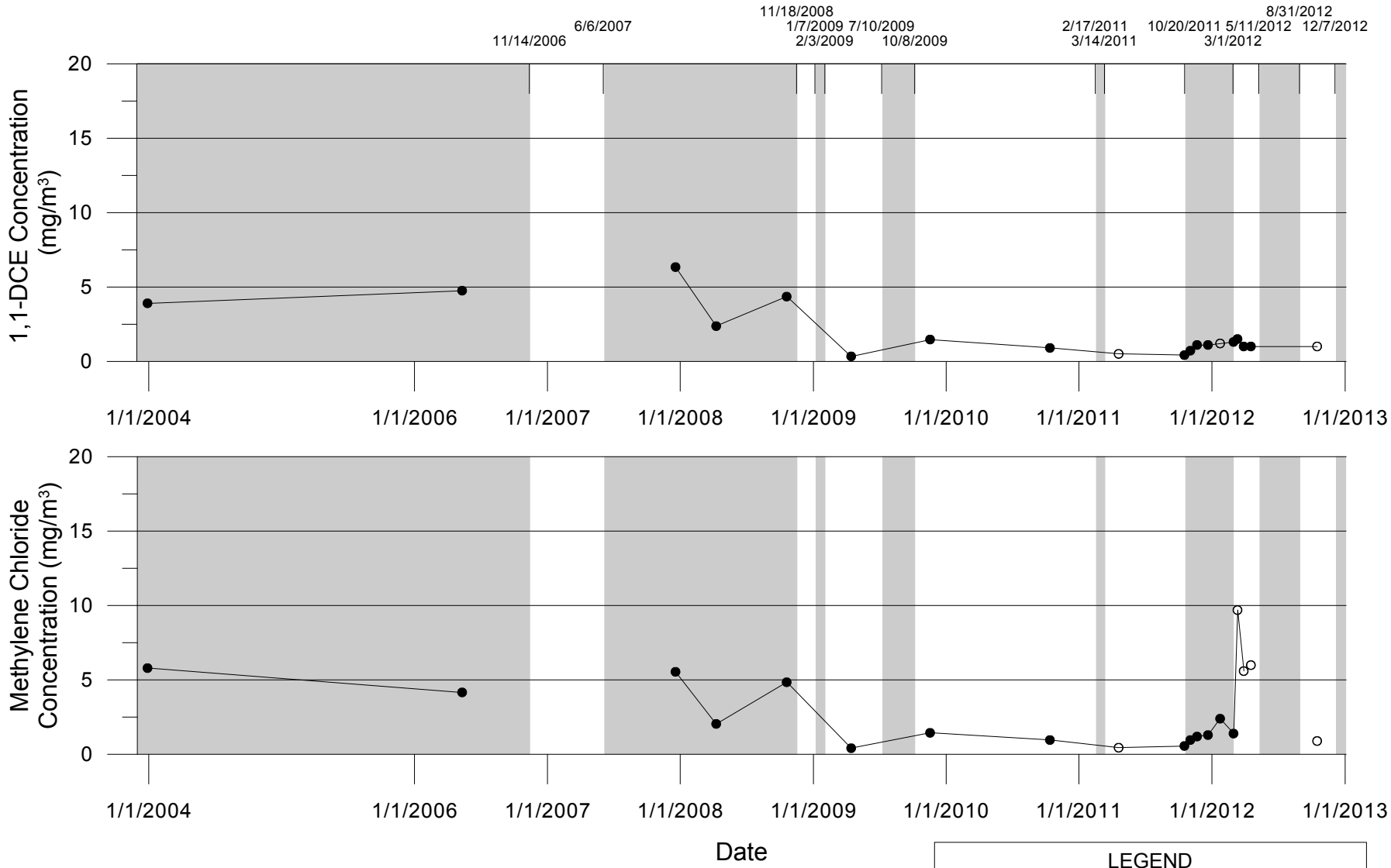
Note:
1.) For field duplicates collected on 11/3/11, 11/22/11, 12/22/11, 1/24/12, 3/12/12, and 3/29/12, concentrations from the original and duplicate sample were compared and the higher value is plotted.

Abbreviations:
mg = milligrams
m = meter

LEGEND
● Consituent value is above the reporting limit.
Soil vapor extraction system was nonoperational.

amec	SGD-MP CARBON TETRACHLORIDE AND CHLOROFORM CONCENTRATION TRENDS Page-Trowbridge Ranch Landfill Pinal County, Arizona	Prepared By: ERO	Project No. 1420112039
		1/9/13	Figure No. 3m

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



Note:
1.) For field duplicates collected on 11/3/11, 11/22/11, 12/22/11, 1/24/12, 3/12/12, and 3/29/12, concentrations from the original and duplicate sample were compared and the higher value is plotted.
2.) A discontinuous line occurs where the constituent concentration was nondetect and the reporting limit was not provided.

Abbreviations:
1,1-DCE = 1,1 Dichloroethene
mg = milligrams
m = meter

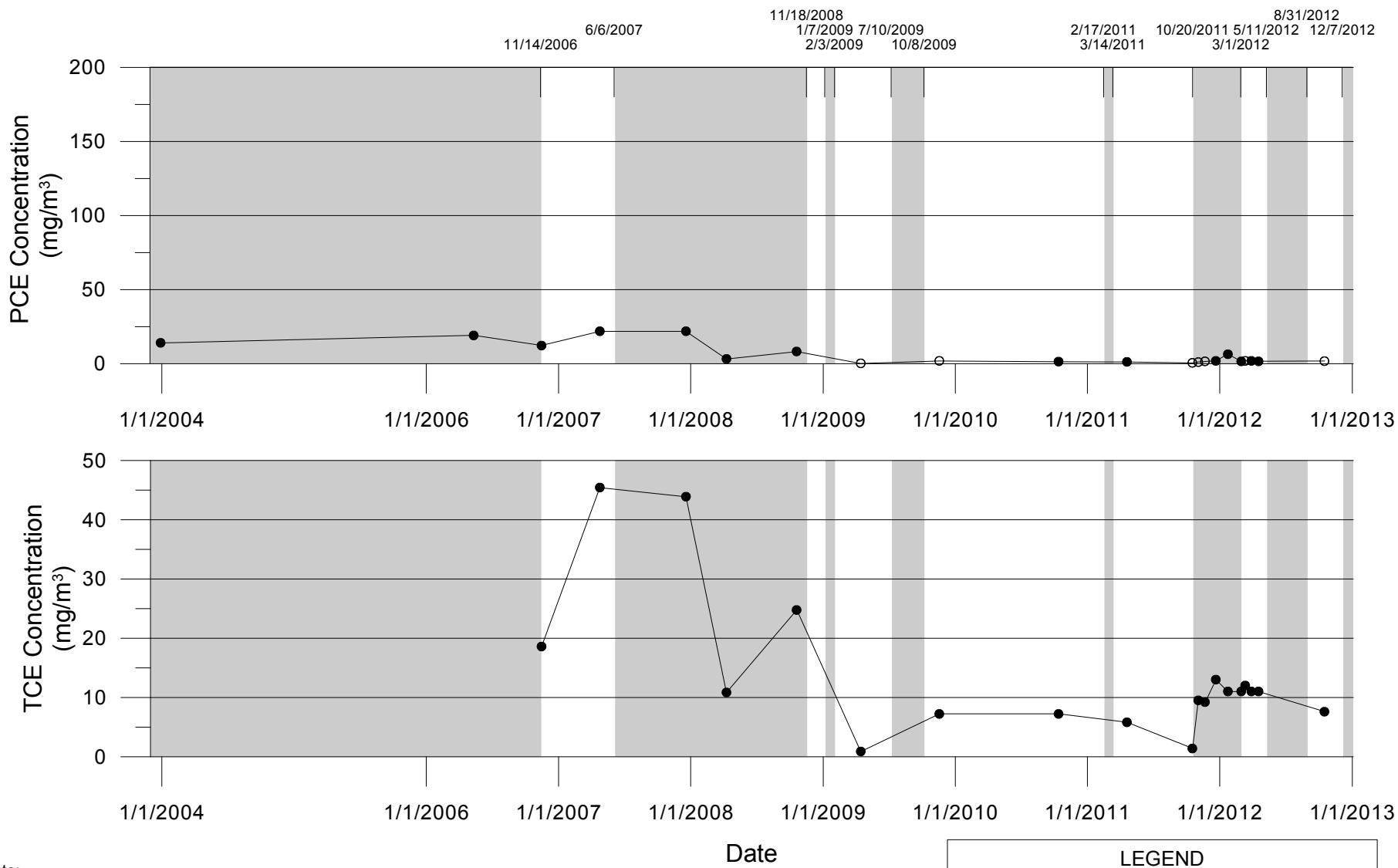
LEGEND
- ● Constituent value is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

amec

SGD-MP 1,1-DCE AND METHYLENE CHLORIDE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3n

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



Note:
1.) For field duplicates collected on 11/3/11, 11/22/11, 12/22/11, 1/24/12, and 3/12/12, concentrations from the original and duplicate sample were compared and the higher value is plotted.
2.) A discontinuous line occurs where the constituent concentration was nondetect and the reporting limit was not provided.

Abbreviations:
PCE = Tetrachloroethene
TCE = Trichloroethene
mg = milligrams
m = meter

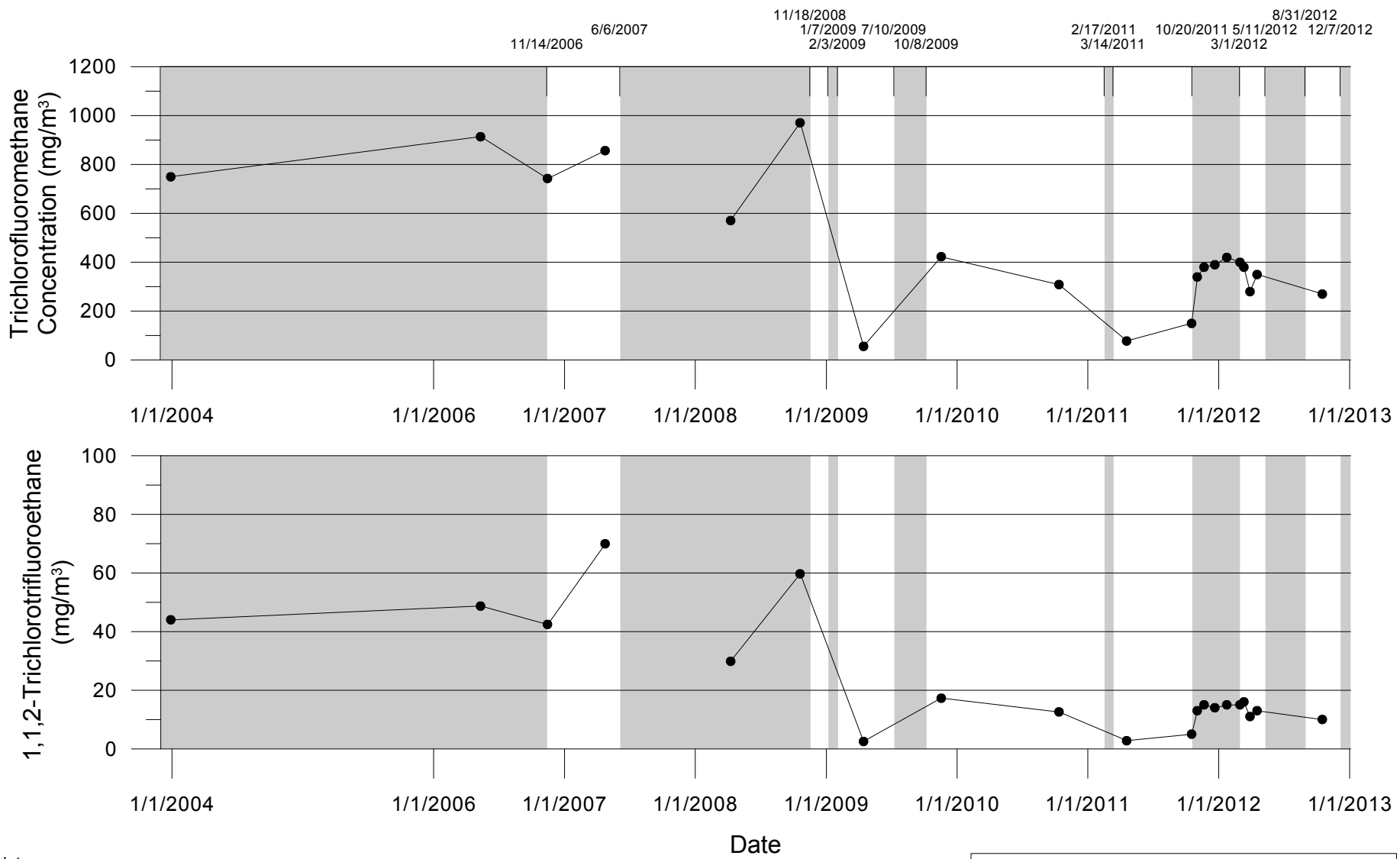
LEGEND
- ● Constituent value is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was not operational.

amec

SGD-MP PCE AND TCE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3o

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



Note:
1.) For field duplicates collected on 11/3/11, 11/22/11, 12/22/11, 1/24/12, and 3/29/12, concentrations from the original and duplicate sample were compared and the higher value is plotted.
2.) A discontinuous line occurs where the constituent concentration was nondetect and the reporting limit was not provided.

Abbreviations:
mg = milligrams
m = meter

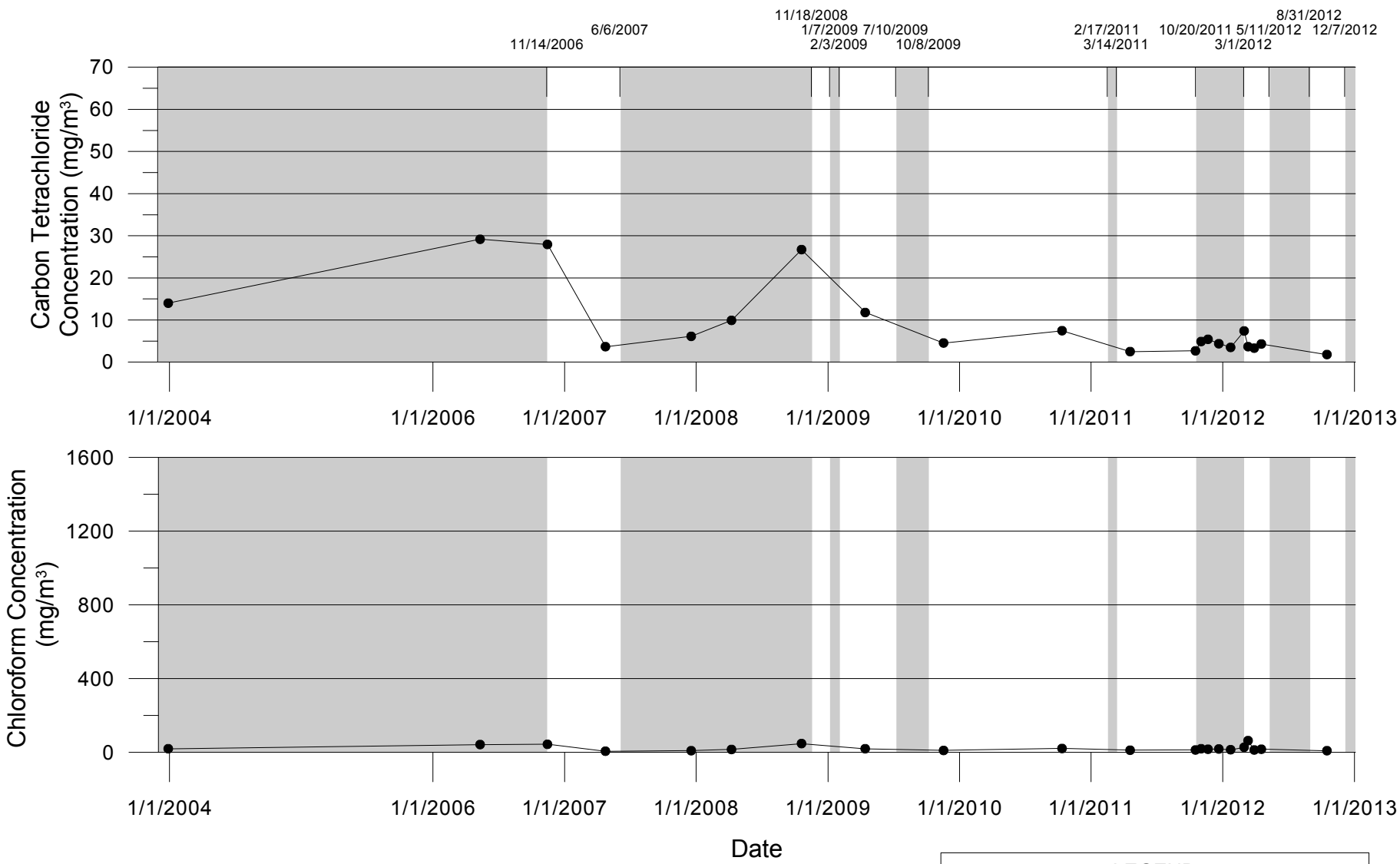
LEGEND
● Constituent value is above the reporting limit.
Soil vapor extraction system was nonoperational.

amec

SGD-MP TRICHLOROFLUOROMETHANE AND
1,1,2-TRICHLOROTRIFLUOROETHANE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3p

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



LEGEND

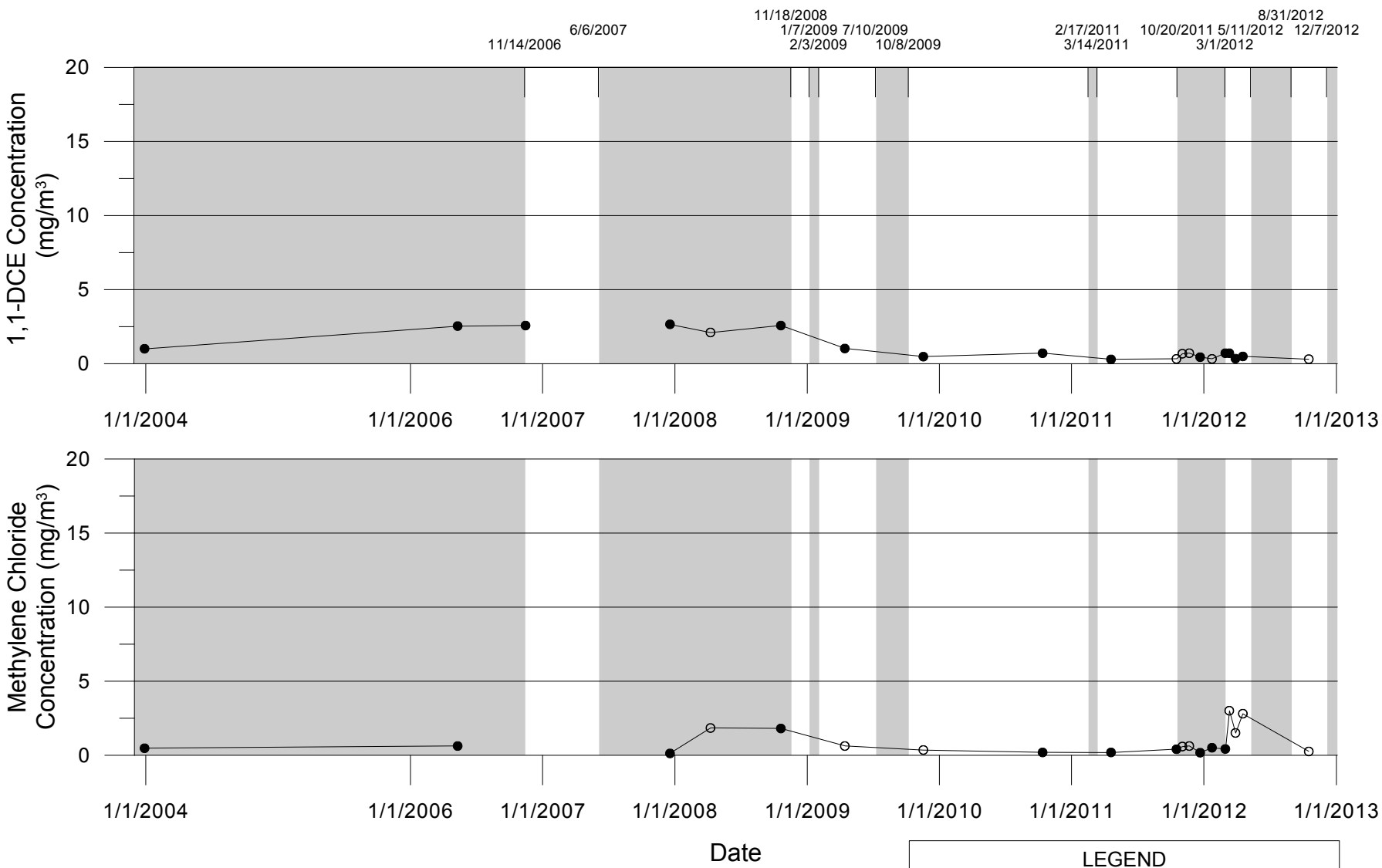
- ● Consituent value is above the reporting limit.
- Soil vapor extraction system was nonoperational.

Note:
1.) For field duplicates collected on April 20, 2011, concentrations from the original and duplicate sample were compared and the higher value is plotted.

Abbreviations:
mg = milligrams
m = meter

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf

amec	SGD-DP CARBON TETRACHLORIDE AND CHLOROFORM CONCENTRATION TRENDS Page-Trowbridge Ranch Landfill Pinal County, Arizona	Prepared By: ERO	Project No. 1420112039
		1/9/13	Figure No. 3q



LEGEND

- ● Constituent value is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

Note:
1.) For field duplicates collected on April 20, 2011, concentrations from the original and duplicate sample were compared and the higher value is plotted.

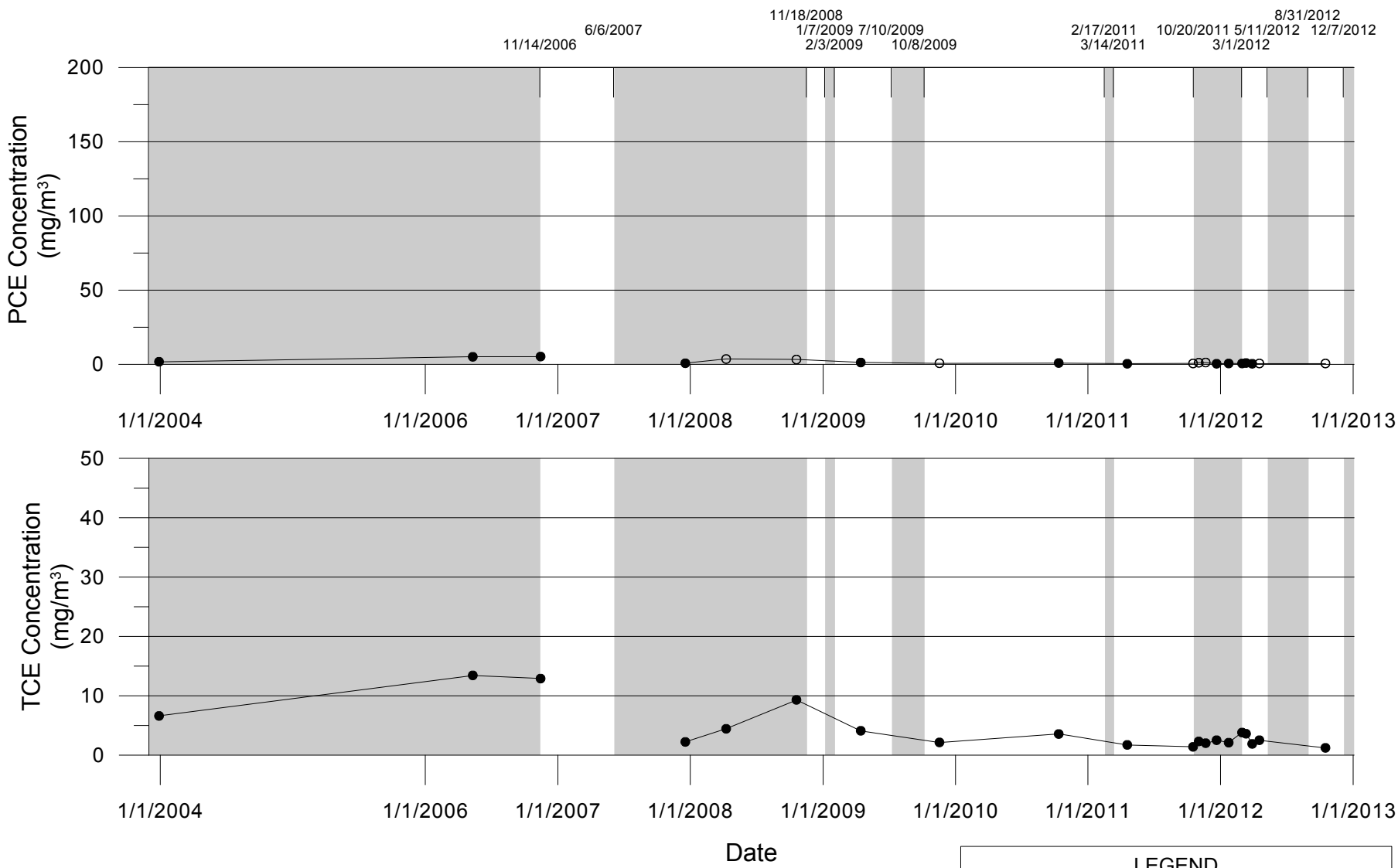
Abbreviations:
1,1-DCE = 1,1 Dichloroethene
mg = milligrams
m = meter

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf

amec

SGD-DP 1,1-DCE AND METHYLENE CHLORIDE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3r



Note:
1.) For field duplicates collected on April 20, 2011, concentrations from the original and duplicate sample were compared and the higher value is plotted.
2.) A discontinuous line occurs where the constituent concentration was nondetect and the reporting limit was not provided.

Abbreviations:
PCE = Tetrachloroethene
TCE = Trichloroethene
mg = milligrams
m = meter

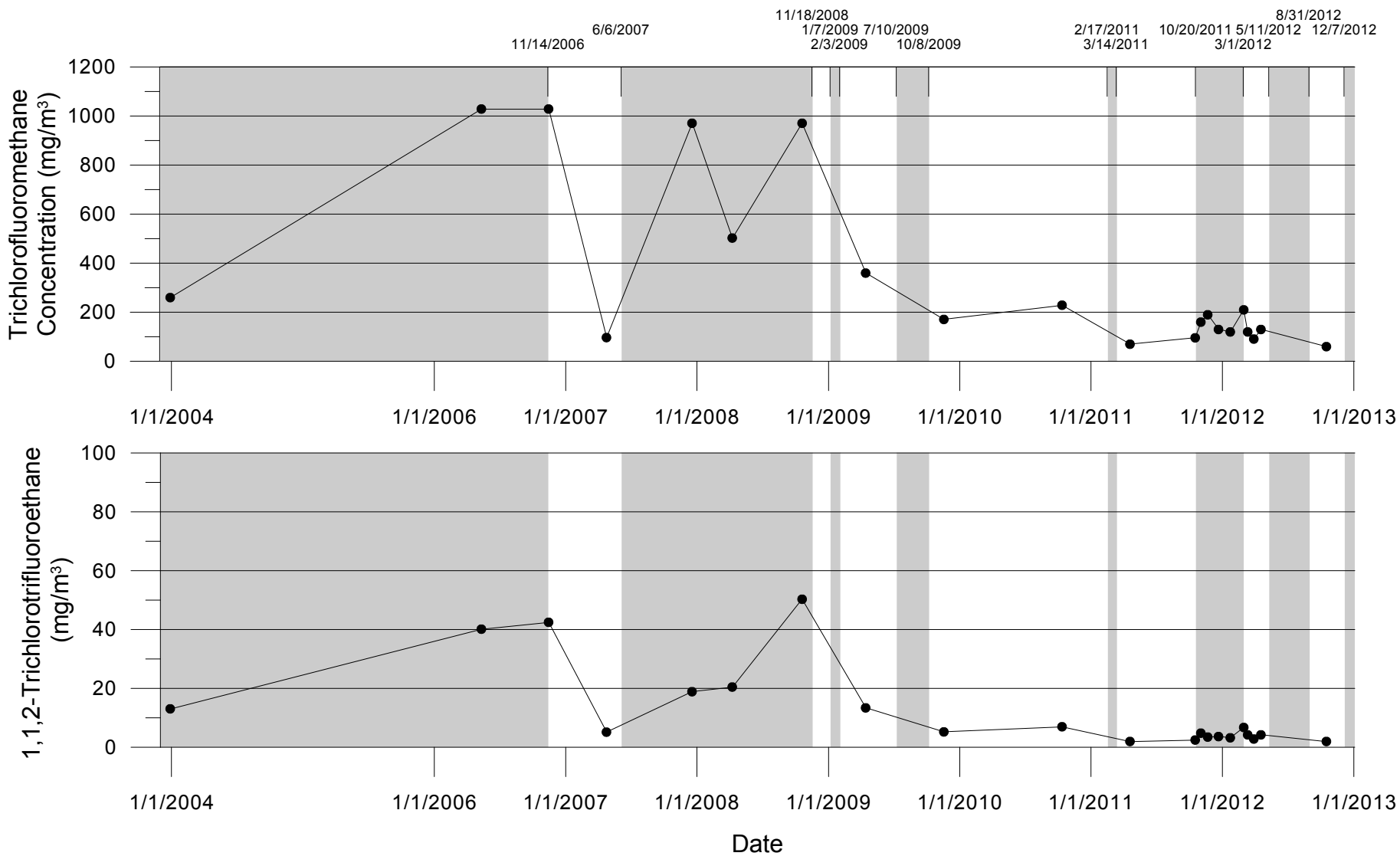
LEGEND
- ● Constituent value is above the reporting limit.
- ○ Non-detect is plotted as the reporting limit.
- Soil vapor extraction system was nonoperational.

amec

SGD-DP PCE AND TCE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3s

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf



Note:
1.) For field duplicates collected on April 20, 2011, concentrations from the original and duplicate sample were compared and the higher value is plotted.

Abbreviations:
mg = milligrams
m = meter

LEGEND
● Constituent value is above the reporting limit.
Soil vapor extraction system was nonoperational.

amec

SGD-DP TRICHLOROFLUOROMETHANE AND
1,1,2-TRICHLOROTRIFLUOROETHANE CONCENTRATION TRENDS
Page-Trowbridge Ranch Landfill
Pinal County, Arizona

Prepared By: ERO	Project No. 1420112039
1/9/13	Figure No. 3t

P:\A00439 - PTRL Rebound Study\4000 Data Analysis\Grapher\Concentration Trends.grf

ATTACHMENTS

(Provided on CD)

Attachment 1 – Laboratory Reports for September 2012 SVE Process Samples (CD only)

October 04, 2012

Jeff Christensen
University of Arizona- Risk Management Services
PO Box 210300, RM A414
Tucson, AZ 85721

TEL (520) 621-5861
FAX (520) 621-3706

Work Order No.: 12I0220

RE: Page Ranch - Air

Dear Jeff Christensen,

Turner Laboratories, Inc. received 3 sample(s) on 09/06/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Client: University of Arizona- Risk Management Servic
Project: Page Ranch - Air
Work Order: 12I0220
Date Received: 09/06/2012

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12I0220-01	Inlet 3423/9533	Air	09/06/2012 0830
12I0220-02	In Between 0731	Air	09/06/2012 0835
12I0220-03	Exhaust 1709/9350	Air	09/06/2012 0840

Client: University of Arizona- Risk Management Services
Project: Page Ranch - Air
Work Order: 12I0220
Date Received: 09/06/2012

Case Narrative

The TO-15 analyses were performed by Air Toxics, LTD. in Folsom, CA.

1210220

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: LLOYD WUNDROCK
Collected by: (Print and Sign): SAME
Company: UofA
Email:
Address:
City: TUCSON State: AZ Zip:
Phone:
Fax:

Project Info:
P.O. #: PTRL SVE
Project #:
Project Name: CARBON VAPOR

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	INLET 3423 9533		09/06	0830		-26 Hg	-3 Hg		
	IN BETWEEN 0731		09/06	0835		-26" Hg	-2" Hg		
	EXHAUST 1709 9350		09/06	0840		-25" Hg	-3" Hg		
	13:06 hrs								

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	09/06/2012	[signature]	9.6.12 1306
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
29.1°C
3 CONTAINERS used
1 CONTAINER unused
1 GUAGE
4 FLOW METERS

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
					Yes No None	

Form 1293 rev.11

12I0220

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: LLOYD WUNDROCK
Collected by: (Print and Sign) SAME LMW
Company: U of A Email:
Address: City: TUCSON State: AZ Zip:
Phone: Fax:

Project Info:
P.O. #: PTRL SVE
Project #:
Project Name: CARBON VAPOR

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	INLET 3423 9533		09/06	0830		-26" Hg	-3" Hg		
	IN BETWEEN 0731		09/06	0835		-26" Hg	-2" Hg		
	EXHAUST 1709 9350		09/06	0840		-25" Hg	-3" Hg		
	13:06 hrs								

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
L Mulundrock	09/06/2012		9-6-12 1306
	9-6-12 1315		

Notes:
29.1°C
3 CONTAINERS used
1 CONTAINER unused
1 GUAGE
4 FLOW METERS

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
					Yes No None	

Form 1293 rev.11

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9/21/2012
Ms. Nancy Turner
Turner Laboratories, Inc.
2445 North Coyote Drive
Suite 104
Tucson AZ 85745

Project Name: CARBON VAPOR
Project #: 12I0220
Workorder #: 1209104

Dear Ms. Nancy Turner

The following report includes the data for the above referenced project for sample(s) received on 9/7/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1209104

Work Order Summary

CLIENT:	Ms. Nancy Turner Turner Laboratories, Inc. 2445 North Coyote Drive Suite 104 Tucson, AZ 85745	**BILL TO:**	Ms. Nancy Turner Turner Laboratories, Inc. 2445 North Coyote Drive Suite 104 Tucson, AZ 85745
PHONE:	520-882-5880	**P.O. #**	PTRL SVE
FAX:	520-882-9788	**PROJECT #**	12I0220 CARBON VAPOR
DATE RECEIVED:	09/07/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	09/21/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	12I0220-01	Modified TO-15	6.5 "Hg	15 psi
02A	12I0220-02	Modified TO-15	5.5 "Hg	15 psi
03A	12I0220-03	Modified TO-15	6.5 "Hg	15 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 09/21/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Turner Laboratories, Inc.
Workorder# 1209104

Three 1 Liter Summa Canister samples were received on September 07, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Due to the linear calibration range of the instrument, the reporting limit for 1,2,4-Trichlorobenzene was raised from 2.0ppbv to 5.0ppbv.

A dilution was performed on samples 12I0220-01 and 12I0220-02 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 12I0220-01

Lab ID#: 1209104-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	260	1000	1300	5100
Freon 11	260	30000	1400	170000
Freon 113	260	1700	2000	13000
1,1-Dichloroethene	260	300	1000	1200
Chloroform	260	97000	1200	470000
Carbon Tetrachloride	260	2300	1600	14000
1,2-Dichloroethane	260	1700	1000	7000
Trichloroethene	260	2400	1400	13000
Tetrachloroethene	260	1000	1800	7200

Client Sample ID: 12I0220-02

Lab ID#: 1209104-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	670	1200	3300
Freon 11	250	24000	1400	140000
Freon 113	250	1600	1900	12000
1,1-Dichloroethene	250	380	980	1500
Chloroform	250	98000	1200	480000

Client Sample ID: 12I0220-03

Lab ID#: 1209104-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	3.4	6.4	17
Acetone	13	44	31	100
Tetrahydrofuran	1.3	4.0	3.8	12
Chloroform	1.3	15	6.3	75
Benzene	1.3	80	4.1	260
Toluene	1.3	5.3	4.9	20
m,p-Xylene	1.3	2.3	5.6	10
Cumene	1.3	5.4	6.3	26

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Client Sample ID: 12I0220-01

Lab ID#: 1209104-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091118**	**Date of Collection:**	**9/6/12 8:30:00 AM**
Dil. Factor:	**516**	**Date of Analysis:**	**9/12/12 07:09 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	260	1000	1300	5100
Freon 114	260	Not Detected	1800	Not Detected
Chloromethane	2600	Not Detected	5300	Not Detected
Vinyl Chloride	260	Not Detected	660	Not Detected
1,3-Butadiene	260	Not Detected	570	Not Detected
Bromomethane	2600	Not Detected	10000	Not Detected
Chloroethane	1000	Not Detected	2700	Not Detected
Freon 11	260	30000	1400	170000
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	260	1700	2000	13000
1,1-Dichloroethene	260	300	1000	1200
Acetone	2600	Not Detected	6100	Not Detected
2-Propanol	1000	Not Detected	2500	Not Detected
Carbon Disulfide	1000	Not Detected	3200	Not Detected
3-Chloropropene	1000	Not Detected	3200	Not Detected
Methylene Chloride	2600	Not Detected	9000	Not Detected
Methyl tert-butyl ether	260	Not Detected	930	Not Detected
trans-1,2-Dichloroethene	260	Not Detected	1000	Not Detected
Hexane	260	Not Detected	910	Not Detected
1,1-Dichloroethane	260	Not Detected	1000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1000	Not Detected	3000	Not Detected
cis-1,2-Dichloroethene	260	Not Detected	1000	Not Detected
Tetrahydrofuran	260	Not Detected	760	Not Detected
Chloroform	260	97000	1200	470000
1,1,1-Trichloroethane	260	Not Detected	1400	Not Detected
Cyclohexane	260	Not Detected	890	Not Detected
Carbon Tetrachloride	260	2300	1600	14000
2,2,4-Trimethylpentane	260	Not Detected	1200	Not Detected
Benzene	260	Not Detected	820	Not Detected
1,2-Dichloroethane	260	1700	1000	7000
Heptane	260	Not Detected	1000	Not Detected
Trichloroethene	260	2400	1400	13000
1,2-Dichloropropane	260	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3700	Not Detected
Bromodichloromethane	260	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	260	Not Detected	1200	Not Detected
4-Methyl-2-pentanone	260	Not Detected	1000	Not Detected
Toluene	260	Not Detected	970	Not Detected
trans-1,3-Dichloropropene	260	Not Detected	1200	Not Detected
1,1,2-Trichloroethane	260	Not Detected	1400	Not Detected
Tetrachloroethene	260	1000	1800	7200
2-Hexanone	1000	Not Detected	4200	Not Detected

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Client Sample ID: 12I0220-01

Lab ID#: 1209104-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091118**	**Date of Collection:**	**9/6/12 8:30:00 AM**
Dil. Factor:	**516**	**Date of Analysis:**	**9/12/12 07:09 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	260	Not Detected	2200	Not Detected
1,2-Dibromoethane (EDB)	260	Not Detected	2000	Not Detected
Chlorobenzene	260	Not Detected	1200	Not Detected
Ethyl Benzene	260	Not Detected	1100	Not Detected
m,p-Xylene	260	Not Detected	1100	Not Detected
o-Xylene	260	Not Detected	1100	Not Detected
Styrene	260	Not Detected	1100	Not Detected
Bromoform	260	Not Detected	2700	Not Detected
Cumene	260	Not Detected	1300	Not Detected
1,1,2,2-Tetrachloroethane	260	Not Detected	1800	Not Detected
Propylbenzene	260	Not Detected	1300	Not Detected
4-Ethyltoluene	260	Not Detected	1300	Not Detected
1,3,5-Trimethylbenzene	260	Not Detected	1300	Not Detected
1,2,4-Trimethylbenzene	260	Not Detected	1300	Not Detected
1,3-Dichlorobenzene	260	Not Detected	1600	Not Detected
1,4-Dichlorobenzene	260	Not Detected	1600	Not Detected
alpha-Chlorotoluene	260	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	260	Not Detected	1600	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7600	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: 12I0220-02

Lab ID#: 1209104-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091119**	**Date of Collection:**	**9/6/12 8:35:00 AM**
Dil. Factor:	**494**	**Date of Analysis:**	**9/12/12 07:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	670	1200	3300
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	2500	Not Detected	5100	Not Detected
Vinyl Chloride	250	Not Detected	630	Not Detected
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	2500	Not Detected	9600	Not Detected
Chloroethane	990	Not Detected	2600	Not Detected
Freon 11	250	24000	1400	140000
Ethanol	990	Not Detected	1900	Not Detected
Freon 113	250	1600	1900	12000
1,1-Dichloroethene	250	380	980	1500
Acetone	2500	Not Detected	5900	Not Detected
2-Propanol	990	Not Detected	2400	Not Detected
Carbon Disulfide	990	Not Detected	3100	Not Detected
3-Chloropropene	990	Not Detected	3100	Not Detected
Methylene Chloride	2500	Not Detected	8600	Not Detected
Methyl tert-butyl ether	250	Not Detected	890	Not Detected
trans-1,2-Dichloroethene	250	Not Detected	980	Not Detected
Hexane	250	Not Detected	870	Not Detected
1,1-Dichloroethane	250	Not Detected	1000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	990	Not Detected	2900	Not Detected
cis-1,2-Dichloroethene	250	Not Detected	980	Not Detected
Tetrahydrofuran	250	Not Detected	730	Not Detected
Chloroform	250	98000	1200	480000
1,1,1-Trichloroethane	250	Not Detected	1300	Not Detected
Cyclohexane	250	Not Detected	850	Not Detected
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	Not Detected	1200	Not Detected
Benzene	250	Not Detected	790	Not Detected
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	Not Detected	1000	Not Detected
Trichloroethene	250	Not Detected	1300	Not Detected
1,2-Dichloropropane	250	Not Detected	1100	Not Detected
1,4-Dioxane	990	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1600	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	Not Detected	1000	Not Detected
Toluene	250	Not Detected	930	Not Detected
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
1,1,2-Trichloroethane	250	Not Detected	1300	Not Detected
Tetrachloroethene	250	Not Detected	1700	Not Detected
2-Hexanone	990	Not Detected	4000	Not Detected

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Client Sample ID: 12I0220-02

Lab ID#: 1209104-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091119**	**Date of Collection:**	**9/6/12 8:35:00 AM**
Dil. Factor:	**494**	**Date of Analysis:**	**9/12/12 07:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1100	Not Detected
Ethyl Benzene	250	Not Detected	1100	Not Detected
m,p-Xylene	250	Not Detected	1100	Not Detected
o-Xylene	250	Not Detected	1100	Not Detected
Styrene	250	Not Detected	1000	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	Not Detected	1200	Not Detected
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	Not Detected	1200	Not Detected
4-Ethyltoluene	250	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene	250	Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene	250	Not Detected	1200	Not Detected
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	990	Not Detected	7300	Not Detected
Hexachlorobutadiene	990	Not Detected	10000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: 12I0220-03

Lab ID#: 1209104-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091206**	**Date of Collection:**	**9/6/12 8:40:00 AM**
Dil. Factor:	**2.58**	**Date of Analysis:**	**9/12/12 02:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	3.4	6.4	17
Freon 114	1.3	Not Detected	9.0	Not Detected
Chloromethane	13	Not Detected	27	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	13	Not Detected	50	Not Detected
Chloroethane	5.2	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.2	Not Detected
Ethanol	5.2	Not Detected	9.7	Not Detected
Freon 113	1.3	Not Detected	9.9	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Acetone	13	44	31	100
2-Propanol	5.2	Not Detected	13	Not Detected
Carbon Disulfide	5.2	Not Detected	16	Not Detected
3-Chloropropene	5.2	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	45	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Tetrahydrofuran	1.3	4.0	3.8	12
Chloroform	1.3	15	6.3	75
1,1,1-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.1	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.0	Not Detected
Benzene	1.3	80	4.1	260
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Heptane	1.3	Not Detected	5.3	Not Detected
Trichloroethene	1.3	Not Detected	6.9	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.0	Not Detected
1,4-Dioxane	5.2	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.6	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.3	Not Detected
Toluene	1.3	5.3	4.9	20
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	Not Detected	8.8	Not Detected
2-Hexanone	5.2	Not Detected	21	Not Detected

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Client Sample ID: 12I0220-03

Lab ID#: 1209104-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091206**	**Date of Collection:**	**9/6/12 8:40:00 AM**
Dil. Factor:	**2.58**	**Date of Analysis:**	**9/12/12 02:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.9	Not Detected
Chlorobenzene	1.3	Not Detected	5.9	Not Detected
Ethyl Benzene	1.3	Not Detected	5.6	Not Detected
m,p-Xylene	1.3	2.3	5.6	10
o-Xylene	1.3	Not Detected	5.6	Not Detected
Styrene	1.3	Not Detected	5.5	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	5.4	6.3	26
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.8	Not Detected
Propylbenzene	1.3	Not Detected	6.3	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.7	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,2,4-Trichlorobenzene	5.2	Not Detected	38	Not Detected
Hexachlorobutadiene	5.2	Not Detected	55	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1209104-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/11/12 11:56 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1209104-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/11/12 11:56 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1209104-04B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/12 01:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1209104-04B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/12 01:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 1209104-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/11/12 09:33 AM**	

Compound	**%Recovery**
Freon 12	97
Freon 114	97
Chloromethane	106
Vinyl Chloride	96
1,3-Butadiene	90
Bromomethane	114
Chloroethane	103
Freon 11	94
Ethanol	117
Freon 113	91
1,1-Dichloroethene	88
Acetone	95
2-Propanol	101
Carbon Disulfide	98
3-Chloropropene	99
Methylene Chloride	94
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	89
Hexane	90
1,1-Dichloroethane	88
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	91
Tetrahydrofuran	92
Chloroform	94
1,1,1-Trichloroethane	96
Cyclohexane	92
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	90
Benzene	89
1,2-Dichloroethane	99
Heptane	95
Trichloroethene	97
1,2-Dichloropropane	92
1,4-Dioxane	100
Bromodichloromethane	104
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	102
Toluene	93
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	94
Tetrachloroethene	93
2-Hexanone	104

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Client Sample ID: CCV

Lab ID#: 1209104-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/11/12 09:33 AM**	

Compound	**%Recovery**
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	96
Chlorobenzene	91
Ethyl Benzene	92
m,p-Xylene	88
o-Xylene	92
Styrene	96
Bromoform	107
Cumene	92
1,1,2,2-Tetrachloroethane	94
Propylbenzene	92
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	80
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	87
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	76
Hexachlorobutadiene	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 1209104-05B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/12 10:33 AM**	

Compound	**%Recovery**
Freon 12	96
Freon 114	98
Chloromethane	106
Vinyl Chloride	96
1,3-Butadiene	90
Bromomethane	115
Chloroethane	104
Freon 11	92
Ethanol	113
Freon 113	89
1,1-Dichloroethene	88
Acetone	94
2-Propanol	100
Carbon Disulfide	96
3-Chloropropene	100
Methylene Chloride	92
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	90
Hexane	90
1,1-Dichloroethane	88
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	90
Tetrahydrofuran	92
Chloroform	94
1,1,1-Trichloroethane	95
Cyclohexane	90
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	88
Benzene	88
1,2-Dichloroethane	96
Heptane	93
Trichloroethene	95
1,2-Dichloropropane	92
1,4-Dioxane	100
Bromodichloromethane	99
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	100
Toluene	90
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	92
Tetrachloroethene	93
2-Hexanone	102

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Client Sample ID: CCV

Lab ID#: 1209104-05B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/12 10:33 AM**	

Compound	**%Recovery**
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	97
Chlorobenzene	91
Ethyl Benzene	90
m,p-Xylene	89
o-Xylene	92
Styrene	95
Bromoform	105
Cumene	92
1,1,2,2-Tetrachloroethane	94
Propylbenzene	93
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	79
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	75
Hexachlorobutadiene	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS

Lab ID#: 1209104-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/11/12 10:12 AM**	

Compound	**%Recovery**
Freon 12	100
Freon 114	104
Chloromethane	107
Vinyl Chloride	102
1,3-Butadiene	97
Bromomethane	120
Chloroethane	113
Freon 11	99
Ethanol	126
Freon 113	100
1,1-Dichloroethene	109
Acetone	116
2-Propanol	137 Q
Carbon Disulfide	130
3-Chloropropene	127
Methylene Chloride	103
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	113
Hexane	95
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	102
Tetrahydrofuran	101
Chloroform	103
1,1,1-Trichloroethane	104
Cyclohexane	100
Carbon Tetrachloride	111
2,2,4-Trimethylpentane	94
Benzene	97
1,2-Dichloroethane	104
Heptane	99
Trichloroethene	104
1,2-Dichloropropane	100
1,4-Dioxane	112
Bromodichloromethane	109
cis-1,3-Dichloropropene	114
4-Methyl-2-pentanone	110
Toluene	97
trans-1,3-Dichloropropene	121
1,1,2-Trichloroethane	103
Tetrachloroethene	101
2-Hexanone	120

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Client Sample ID: LCS

Lab ID#: 1209104-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/11/12 10:12 AM**	

Compound	**%Recovery**
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	108
Chlorobenzene	100
Ethyl Benzene	97
m,p-Xylene	93
o-Xylene	95
Styrene	101
Bromoform	116
Cumene	96
1,1,2,2-Tetrachloroethane	107
Propylbenzene	95
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	79
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	88

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCSD

Lab ID#: 1209104-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/11/12 10:57 AM**	

Compound	**%Recovery**
Freon 12	99
Freon 114	102
Chloromethane	115
Vinyl Chloride	101
1,3-Butadiene	96
Bromomethane	123
Chloroethane	109
Freon 11	96
Ethanol	123
Freon 113	97
1,1-Dichloroethene	100
Acetone	109
2-Propanol	130
Carbon Disulfide	125
3-Chloropropene	119
Methylene Chloride	97
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	109
Hexane	94
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	107
cis-1,2-Dichloroethene	99
Tetrahydrofuran	96
Chloroform	98
1,1,1-Trichloroethane	100
Cyclohexane	97
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	93
Benzene	96
1,2-Dichloroethane	102
Heptane	99
Trichloroethene	102
1,2-Dichloropropane	98
1,4-Dioxane	108
Bromodichloromethane	108
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	108
Toluene	96
trans-1,3-Dichloropropene	118
1,1,2-Trichloroethane	101
Tetrachloroethene	99
2-Hexanone	115

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Client Sample ID: LCSD

Lab ID#: 1209104-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/11/12 10:57 AM**	

Compound	**%Recovery**
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	105
Chlorobenzene	100
Ethyl Benzene	99
m,p-Xylene	99
o-Xylene	101
Styrene	108
Bromoform	111
Cumene	102
1,1,2,2-Tetrachloroethane	104
Propylbenzene	105
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	91
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	125
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	96

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1209104-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/12 11:35 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	106
Chloromethane	120
Vinyl Chloride	106
1,3-Butadiene	98
Bromomethane	125
Chloroethane	112
Freon 11	99
Ethanol	127
Freon 113	98
1,1-Dichloroethene	103
Acetone	115
2-Propanol	118
Carbon Disulfide	128
3-Chloropropene	121
Methylene Chloride	100
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	110
Hexane	94
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	100
Tetrahydrofuran	97
Chloroform	102
1,1,1-Trichloroethane	101
Cyclohexane	97
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	94
Benzene	96
1,2-Dichloroethane	103
Heptane	100
Trichloroethene	104
1,2-Dichloropropane	98
1,4-Dioxane	108
Bromodichloromethane	108
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	108
Toluene	95
trans-1,3-Dichloropropene	118
1,1,2-Trichloroethane	103
Tetrachloroethene	100
2-Hexanone	116

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Client Sample ID: LCS

Lab ID#: 1209104-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/12 11:35 AM**	

Compound	**%Recovery**
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	107
Chlorobenzene	101
Ethyl Benzene	98
m,p-Xylene	97
o-Xylene	100
Styrene	106
Bromoform	112
Cumene	101
1,1,2,2-Tetrachloroethane	105
Propylbenzene	104
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	124
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	90
Hexachlorobutadiene	96

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 1209104-06BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/12 12:31 PM**	

Compound	**%Recovery**
Freon 12	101
Freon 114	104
Chloromethane	118
Vinyl Chloride	104
1,3-Butadiene	97
Bromomethane	122
Chloroethane	111
Freon 11	97
Ethanol	124
Freon 113	96
1,1-Dichloroethene	100
Acetone	111
2-Propanol	116
Carbon Disulfide	125
3-Chloropropene	120
Methylene Chloride	98
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	110
Hexane	93
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	99
Tetrahydrofuran	96
Chloroform	99
1,1,1-Trichloroethane	101
Cyclohexane	96
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	92
Benzene	97
1,2-Dichloroethane	102
Heptane	100
Trichloroethene	104
1,2-Dichloropropane	99
1,4-Dioxane	109
Bromodichloromethane	107
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	109
Toluene	96
trans-1,3-Dichloropropene	118
1,1,2-Trichloroethane	100
Tetrachloroethene	99
2-Hexanone	114

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Client Sample ID: LCSD

Lab ID#: 1209104-06BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2091204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/12/12 12:31 PM**	

Compound	**%Recovery**
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	104
Chlorobenzene	99
Ethyl Benzene	100
m,p-Xylene	102
o-Xylene	105
Styrene	110
Bromoform	109
Cumene	104
1,1,2,2-Tetrachloroethane	103
Propylbenzene	109
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	128
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	105	70-130

Attachment 2 – Laboratory Reports for October 2012 SVE Process Samples (CD only)

October 29, 2012

Jeff Christensen
University of Arizona- Risk Management Services
PO Box 210300, RM A414
Tucson, AZ 85721

TEL (520) 621-5861
FAX (520) 621-3706

Work Order No.: 12J0313

RE: Page Ranch - Air

Dear Jeff Christensen,

Turner Laboratories, Inc. received 3 sample(s) on 10/04/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 10/29/2012

Client: University of Arizona- Risk Management Servic
Project: Page Ranch - Air
Work Order: 12J0313
Date Received: 10/04/2012

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12J0313-01	Inlet 1462	Air and Emissions	10/04/2012 1440
12J0313-02	In Between 9332/5706	Air and Emissions	10/04/2012 1245
12J0313-03	Exhaust 94915/0179	Air and Emissions	10/04/2012 1250

Client: University of Arizona- Risk Management Services
Project: Page Ranch - Air
Work Order: 12J0313
Date Received: 10/04/2012

Case Narrative

The TO-15 analyses were performed by Air Toxics, LTD. in Folsom, CA.

12J0313

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager: LLOYD WUNDROCK

Collected by: (Print and Sign): SAME

Company: Email:

Address: City: State: Zip:

Phone: Fax:

Project Info:

P.O. #:

Project #:

Project Name: PTRL SVE CANOON VAPOR

Turn Around Time:
☒ Normal
☐ Rush _____ specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	INLET	1462	10/04/2012	12:40		-28" Hg	-3" Hg		
	IN BETWEEN 9332	5706	10/04/2012	12:45		-28" Hg	-3" Hg		
	EXHAUST 94915	0179	10/04/2012	12:50		-25" Hg	-3" Hg		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
R M Wundrock	10/04/2012 15:40	[signature]	10-4-12 1540
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
30.6°C 4 CANISTERS
4 FLOW METERS
1 GUAGE

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
					Yes No None	

Form 1293 rev.11

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10/19/2012
Ms. Nancy Turner
Turner Laboratories, Inc.
2445 North Coyote Drive
Suite 104
Tucson AZ 85745

Project Name: PTRL SVE CARBON VAPOR
Project #:
Workorder #: 1210130

Dear Ms. Nancy Turner

The following report includes the data for the above referenced project for sample(s) received on 10/5/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1210130

Work Order Summary

CLIENT:	Ms. Nancy Turner Turner Laboratories, Inc. 2445 North Coyote Drive Suite 104 Tucson, AZ 85745	**BILL TO:**	Ms. Nancy Turner Turner Laboratories, Inc. 2445 North Coyote Drive Suite 104 Tucson, AZ 85745
PHONE:	520-882-5880	**P.O. #**	
FAX:	520-882-9788	**PROJECT #**	PTRL SVE CARBON VAPOR
DATE RECEIVED:	10/05/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	10/19/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	INLET	Modified TO-15	6.2 "Hg	15 psi
02A	IN BETWEEN	Modified TO-15	6.4 "Hg	15 psi
03A	EXHAUST	Modified TO-15	7.4 "Hg	15 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 10/19/12

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Turner Laboratories, Inc.
Workorder# 1210130

Three 1 Liter Summa Canister samples were received on October 05, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Due to the linear calibration range of the instrument, the reporting limit for 1,2,4-Trichlorobenzene was raised from 2.0 ppbv to 5.0 ppbv.

Dilution was performed on all of the samples due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: INLET

Lab ID#: 1210130-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	260	970	1300	4800
Freon 11	260	30000	1400	170000
Freon 113	260	1600	2000	12000
1,1-Dichloroethene	260	310	1000	1200
Chloroform	260	85000	1200	410000
Carbon Tetrachloride	260	2100	1600	13000
1,2-Dichloroethane	260	1400	1000	5600
Trichloroethene	260	1500	1400	8000
Tetrachloroethene	260	360	1700	2500

Client Sample ID: IN BETWEEN

Lab ID#: 1210130-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	170	1100	850	5400
Freon 11	170	23000	960	130000
Freon 113	170	630	1300	4800
1,1-Dichloroethene	170	180	680	710
Chloroform	170	52000	840	250000

Client Sample ID: EXHAUST

Lab ID#: 1210130-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	18	840	88	4200
Freon 11	18	5000	100	28000
Benzene	18	25	57	81

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Client Sample ID: INLET

Lab ID#: 1210130-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101620**	**Date of Collection:**	**10/4/12 12:40:00 PM**
Dil. Factor:	**510**	**Date of Analysis:**	**10/17/12 07:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	260	970	1300	4800
Freon 114	260	Not Detected	1800	Not Detected
Chloromethane	2600	Not Detected	5300	Not Detected
Vinyl Chloride	260	Not Detected	650	Not Detected
1,3-Butadiene	260	Not Detected	560	Not Detected
Bromomethane	2600	Not Detected	9900	Not Detected
Chloroethane	1000	Not Detected	2700	Not Detected
Freon 11	260	30000	1400	170000
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	260	1600	2000	12000
1,1-Dichloroethene	260	310	1000	1200
Acetone	2600	Not Detected	6000	Not Detected
2-Propanol	1000	Not Detected	2500	Not Detected
Carbon Disulfide	1000	Not Detected	3200	Not Detected
3-Chloropropene	1000	Not Detected	3200	Not Detected
Methylene Chloride	2600	Not Detected	8800	Not Detected
Methyl tert-butyl ether	260	Not Detected	920	Not Detected
trans-1,2-Dichloroethene	260	Not Detected	1000	Not Detected
Hexane	260	Not Detected	900	Not Detected
1,1-Dichloroethane	260	Not Detected	1000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1000	Not Detected	3000	Not Detected
cis-1,2-Dichloroethene	260	Not Detected	1000	Not Detected
Tetrahydrofuran	260	Not Detected	750	Not Detected
Chloroform	260	85000	1200	410000
1,1,1-Trichloroethane	260	Not Detected	1400	Not Detected
Cyclohexane	260	Not Detected	880	Not Detected
Carbon Tetrachloride	260	2100	1600	13000
2,2,4-Trimethylpentane	260	Not Detected	1200	Not Detected
Benzene	260	Not Detected	810	Not Detected
1,2-Dichloroethane	260	1400	1000	5600
Heptane	260	Not Detected	1000	Not Detected
Trichloroethene	260	1500	1400	8000
1,2-Dichloropropane	260	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3700	Not Detected
Bromodichloromethane	260	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	260	Not Detected	1200	Not Detected
4-Methyl-2-pentanone	260	Not Detected	1000	Not Detected
Toluene	260	Not Detected	960	Not Detected
trans-1,3-Dichloropropene	260	Not Detected	1200	Not Detected
1,1,2-Trichloroethane	260	Not Detected	1400	Not Detected
Tetrachloroethene	260	360	1700	2500
2-Hexanone	1000	Not Detected	4200	Not Detected

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Client Sample ID: INLET

Lab ID#: 1210130-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101620**	**Date of Collection:**	**10/4/12 12:40:00 PM**
Dil. Factor:	**510**	**Date of Analysis:**	**10/17/12 07:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	260	Not Detected	2200	Not Detected
1,2-Dibromoethane (EDB)	260	Not Detected	2000	Not Detected
Chlorobenzene	260	Not Detected	1200	Not Detected
Ethyl Benzene	260	Not Detected	1100	Not Detected
m,p-Xylene	260	Not Detected	1100	Not Detected
o-Xylene	260	Not Detected	1100	Not Detected
Styrene	260	Not Detected	1100	Not Detected
Bromoform	260	Not Detected	2600	Not Detected
Cumene	260	Not Detected	1200	Not Detected
1,1,2,2-Tetrachloroethane	260	Not Detected	1800	Not Detected
Propylbenzene	260	Not Detected	1200	Not Detected
4-Ethyltoluene	260	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene	260	Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene	260	Not Detected	1200	Not Detected
1,3-Dichlorobenzene	260	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	260	Not Detected	1500	Not Detected
alpha-Chlorotoluene	260	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	260	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	2600	Not Detected	19000	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: IN BETWEEN

Lab ID#: 1210130-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101619**	**Date of Collection:**	**10/4/12 12:45:00 PM**
Dil. Factor:	**343**	**Date of Analysis:**	**10/17/12 07:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	170	1100	850	5400
Freon 114	170	Not Detected	1200	Not Detected
Chloromethane	1700	Not Detected	3500	Not Detected
Vinyl Chloride	170	Not Detected	440	Not Detected
1,3-Butadiene	170	Not Detected	380	Not Detected
Bromomethane	1700	Not Detected	6700	Not Detected
Chloroethane	690	Not Detected	1800	Not Detected
Freon 11	170	23000	960	130000
Ethanol	690	Not Detected	1300	Not Detected
Freon 113	170	630	1300	4800
1,1-Dichloroethene	170	180	680	710
Acetone	1700	Not Detected	4100	Not Detected
2-Propanol	690	Not Detected	1700	Not Detected
Carbon Disulfide	690	Not Detected	2100	Not Detected
3-Chloropropene	690	Not Detected	2100	Not Detected
Methylene Chloride	1700	Not Detected	6000	Not Detected
Methyl tert-butyl ether	170	Not Detected	620	Not Detected
trans-1,2-Dichloroethene	170	Not Detected	680	Not Detected
Hexane	170	Not Detected	600	Not Detected
1,1-Dichloroethane	170	Not Detected	690	Not Detected
2-Butanone (Methyl Ethyl Ketone)	690	Not Detected	2000	Not Detected
cis-1,2-Dichloroethene	170	Not Detected	680	Not Detected
Tetrahydrofuran	170	Not Detected	500	Not Detected
Chloroform	170	52000	840	250000
1,1,1-Trichloroethane	170	Not Detected	940	Not Detected
Cyclohexane	170	Not Detected	590	Not Detected
Carbon Tetrachloride	170	Not Detected	1100	Not Detected
2,2,4-Trimethylpentane	170	Not Detected	800	Not Detected
Benzene	170	Not Detected	550	Not Detected
1,2-Dichloroethane	170	Not Detected	690	Not Detected
Heptane	170	Not Detected	700	Not Detected
Trichloroethene	170	Not Detected	920	Not Detected
1,2-Dichloropropane	170	Not Detected	790	Not Detected
1,4-Dioxane	690	Not Detected	2500	Not Detected
Bromodichloromethane	170	Not Detected	1100	Not Detected
cis-1,3-Dichloropropene	170	Not Detected	780	Not Detected
4-Methyl-2-pentanone	170	Not Detected	700	Not Detected
Toluene	170	Not Detected	650	Not Detected
trans-1,3-Dichloropropene	170	Not Detected	780	Not Detected
1,1,2-Trichloroethane	170	Not Detected	940	Not Detected
Tetrachloroethene	170	Not Detected	1200	Not Detected
2-Hexanone	690	Not Detected	2800	Not Detected

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Client Sample ID: IN BETWEEN

Lab ID#: 1210130-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101619**	**Date of Collection:**	**10/4/12 12:45:00 PM**
Dil. Factor:	**343**	**Date of Analysis:**	**10/17/12 07:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	170	Not Detected	1500	Not Detected
1,2-Dibromoethane (EDB)	170	Not Detected	1300	Not Detected
Chlorobenzene	170	Not Detected	790	Not Detected
Ethyl Benzene	170	Not Detected	740	Not Detected
m,p-Xylene	170	Not Detected	740	Not Detected
o-Xylene	170	Not Detected	740	Not Detected
Styrene	170	Not Detected	730	Not Detected
Bromoform	170	Not Detected	1800	Not Detected
Cumene	170	Not Detected	840	Not Detected
1,1,2,2-Tetrachloroethane	170	Not Detected	1200	Not Detected
Propylbenzene	170	Not Detected	840	Not Detected
4-Ethyltoluene	170	Not Detected	840	Not Detected
1,3,5-Trimethylbenzene	170	Not Detected	840	Not Detected
1,2,4-Trimethylbenzene	170	Not Detected	840	Not Detected
1,3-Dichlorobenzene	170	Not Detected	1000	Not Detected
1,4-Dichlorobenzene	170	Not Detected	1000	Not Detected
alpha-Chlorotoluene	170	Not Detected	890	Not Detected
1,2-Dichlorobenzene	170	Not Detected	1000	Not Detected
1,2,4-Trichlorobenzene	1700	Not Detected	13000	Not Detected
Hexachlorobutadiene	690	Not Detected	7300	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: EXHAUST

Lab ID#: 1210130-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101617**	**Date of Collection:**	**10/4/12 12:50:00 PM**
Dil. Factor:	**35.7**	**Date of Analysis:**	**10/16/12 10:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	18	840	88	4200
Freon 114	18	Not Detected	120	Not Detected
Chloromethane	180	Not Detected	370	Not Detected
Vinyl Chloride	18	Not Detected	46	Not Detected
1,3-Butadiene	18	Not Detected	39	Not Detected
Bromomethane	180	Not Detected	690	Not Detected
Chloroethane	71	Not Detected	190	Not Detected
Freon 11	18	5000	100	28000
Ethanol	71	Not Detected	130	Not Detected
Freon 113	18	Not Detected	140	Not Detected
1,1-Dichloroethene	18	Not Detected	71	Not Detected
Acetone	180	Not Detected	420	Not Detected
2-Propanol	71	Not Detected	180	Not Detected
Carbon Disulfide	71	Not Detected	220	Not Detected
3-Chloropropene	71	Not Detected	220	Not Detected
Methylene Chloride	180	Not Detected	620	Not Detected
Methyl tert-butyl ether	18	Not Detected	64	Not Detected
trans-1,2-Dichloroethene	18	Not Detected	71	Not Detected
Hexane	18	Not Detected	63	Not Detected
1,1-Dichloroethane	18	Not Detected	72	Not Detected
2-Butanone (Methyl Ethyl Ketone)	71	Not Detected	210	Not Detected
cis-1,2-Dichloroethene	18	Not Detected	71	Not Detected
Tetrahydrofuran	18	Not Detected	53	Not Detected
Chloroform	18	Not Detected	87	Not Detected
1,1,1-Trichloroethane	18	Not Detected	97	Not Detected
Cyclohexane	18	Not Detected	61	Not Detected
Carbon Tetrachloride	18	Not Detected	110	Not Detected
2,2,4-Trimethylpentane	18	Not Detected	83	Not Detected
Benzene	18	25	57	81
1,2-Dichloroethane	18	Not Detected	72	Not Detected
Heptane	18	Not Detected	73	Not Detected
Trichloroethene	18	Not Detected	96	Not Detected
1,2-Dichloropropane	18	Not Detected	82	Not Detected
1,4-Dioxane	71	Not Detected	260	Not Detected
Bromodichloromethane	18	Not Detected	120	Not Detected
cis-1,3-Dichloropropene	18	Not Detected	81	Not Detected
4-Methyl-2-pentanone	18	Not Detected	73	Not Detected
Toluene	18	Not Detected	67	Not Detected
trans-1,3-Dichloropropene	18	Not Detected	81	Not Detected
1,1,2-Trichloroethane	18	Not Detected	97	Not Detected
Tetrachloroethene	18	Not Detected	120	Not Detected
2-Hexanone	71	Not Detected	290	Not Detected

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Client Sample ID: EXHAUST

Lab ID#: 1210130-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101617**	**Date of Collection:**	**10/4/12 12:50:00 PM**
Dil. Factor:	**35.7**	**Date of Analysis:**	**10/16/12 10:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	18	Not Detected	150	Not Detected
1,2-Dibromoethane (EDB)	18	Not Detected	140	Not Detected
Chlorobenzene	18	Not Detected	82	Not Detected
Ethyl Benzene	18	Not Detected	78	Not Detected
m,p-Xylene	18	Not Detected	78	Not Detected
o-Xylene	18	Not Detected	78	Not Detected
Styrene	18	Not Detected	76	Not Detected
Bromoform	18	Not Detected	180	Not Detected
Cumene	18	Not Detected	88	Not Detected
1,1,2,2-Tetrachloroethane	18	Not Detected	120	Not Detected
Propylbenzene	18	Not Detected	88	Not Detected
4-Ethyltoluene	18	Not Detected	88	Not Detected
1,3,5-Trimethylbenzene	18	Not Detected	88	Not Detected
1,2,4-Trimethylbenzene	18	Not Detected	88	Not Detected
1,3-Dichlorobenzene	18	Not Detected	110	Not Detected
1,4-Dichlorobenzene	18	Not Detected	110	Not Detected
alpha-Chlorotoluene	18	Not Detected	92	Not Detected
1,2-Dichlorobenzene	18	Not Detected	110	Not Detected
1,2,4-Trichlorobenzene	180	Not Detected	1300	Not Detected
Hexachlorobutadiene	71	Not Detected	760	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210130-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 12:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210130-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 12:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 1210130-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 08:55 AM**	

Compound	%Recovery
Freon 12	114
Freon 114	113
Chloromethane	124
Vinyl Chloride	113
1,3-Butadiene	105
Bromomethane	136 Q
Chloroethane	116
Freon 11	103
Ethanol	112
Freon 113	98
1,1-Dichloroethene	94
Acetone	103
2-Propanol	110
Carbon Disulfide	108
3-Chloropropene	109
Methylene Chloride	102
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	94
Hexane	98
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	96
Tetrahydrofuran	102
Chloroform	104
1,1,1-Trichloroethane	107
Cyclohexane	96
Carbon Tetrachloride	113
2,2,4-Trimethylpentane	99
Benzene	96
1,2-Dichloroethane	107
Heptane	103
Trichloroethene	105
1,2-Dichloropropane	101
1,4-Dioxane	112
Bromodichloromethane	113
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	113
Toluene	100
trans-1,3-Dichloropropene	120
1,1,2-Trichloroethane	102
Tetrachloroethene	102
2-Hexanone	114

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Client Sample ID: CCV

Lab ID#: 1210130-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 08:55 AM**	

Compound	**%Recovery**
Dibromochloromethane	117
1,2-Dibromoethane (EDB)	108
Chlorobenzene	99
Ethyl Benzene	103
m,p-Xylene	106
o-Xylene	109
Styrene	113
Bromoform	117
Cumene	111
1,1,2,2-Tetrachloroethane	107
Propylbenzene	117
4-Ethyltoluene	116
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	136 Q
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	110

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCS

Lab ID#: 1210130-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 10:04 AM**	

Compound	**%Recovery**
Freon 12	111
Freon 114	110
Chloromethane	126
Vinyl Chloride	112
1,3-Butadiene	104
Bromomethane	131 Q
Chloroethane	119
Freon 11	104
Ethanol	131 Q
Freon 113	97
1,1-Dichloroethene	99
Acetone	125
2-Propanol	116
Carbon Disulfide	130
3-Chloropropene	122
Methylene Chloride	99
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	108
Hexane	92
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	98
Tetrahydrofuran	98
Chloroform	101
1,1,1-Trichloroethane	104
Cyclohexane	96
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	92
Benzene	98
1,2-Dichloroethane	110
Heptane	105
Trichloroethene	107
1,2-Dichloropropane	102
1,4-Dioxane	110
Bromodichloromethane	115
cis-1,3-Dichloropropene	115
4-Methyl-2-pentanone	114
Toluene	100
trans-1,3-Dichloropropene	124
1,1,2-Trichloroethane	105
Tetrachloroethene	103
2-Hexanone	115

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Client Sample ID: LCS

Lab ID#: 1210130-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 10:04 AM**	

Compound	**%Recovery**
Dibromochloromethane	119
1,2-Dibromoethane (EDB)	111
Chlorobenzene	102
Ethyl Benzene	102
m,p-Xylene	108
o-Xylene	111
Styrene	110
Bromoform	117
Cumene	111
1,1,2,2-Tetrachloroethane	112
Propylbenzene	117
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	136 Q
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	107

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCSD

Lab ID#: 1210130-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 10:57 AM**	

Compound	**%Recovery**
Freon 12	108
Freon 114	108
Chloromethane	123
Vinyl Chloride	110
1,3-Butadiene	103
Bromomethane	129
Chloroethane	118
Freon 11	103
Ethanol	130
Freon 113	96
1,1-Dichloroethene	101
Acetone	128
2-Propanol	116
Carbon Disulfide	129
3-Chloropropene	121
Methylene Chloride	99
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	110
Hexane	93
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	99
Tetrahydrofuran	99
Chloroform	102
1,1,1-Trichloroethane	107
Cyclohexane	95
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	94
Benzene	98
1,2-Dichloroethane	110
Heptane	103
Trichloroethene	106
1,2-Dichloropropane	104
1,4-Dioxane	109
Bromodichloromethane	114
cis-1,3-Dichloropropene	115
4-Methyl-2-pentanone	113
Toluene	99
trans-1,3-Dichloropropene	125
1,1,2-Trichloroethane	104
Tetrachloroethene	101
2-Hexanone	115

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Client Sample ID: LCSD

Lab ID#: 1210130-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2101604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/12 10:57 AM**	

Compound	**%Recovery**
Dibromochloromethane	116
1,2-Dibromoethane (EDB)	109
Chlorobenzene	101
Ethyl Benzene	101
m,p-Xylene	105
o-Xylene	107
Styrene	108
Bromoform	116
Cumene	108
1,1,2,2-Tetrachloroethane	110
Propylbenzene	112
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	135 Q
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	104

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	104	70-130

Attachment 3 – Laboratory Reports for October 2012 Soil Vapor Samples (CD only)

November 21, 2012

Jeff Christensen
University of Arizona- Risk Management Services
PO Box 210300, RM A414
Tucson, AZ 85721

TEL (520) 621-5861
FAX (520) 621-3706

Work Order No.: 12J0580

RE: Page Ranch - Air

Dear Jeff Christensen,

Turner Laboratories, Inc. received 6 sample(s) on 10/17/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Client: University of Arizona- Risk Management Servic
Project: Page Ranch - Air
Work Order: 12J0580
Date Received: 10/17/2012

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12J0580-01	MW #5 Can# 3827	Air and Emissions	10/17/2012 1202
12J0580-02	SGD-SP Can # 12036	Air and Emissions	10/17/2012 1036
12J0580-03	SGD-MP Can # 1734	Air and Emissions	10/17/2012 1047
12J0580-04	SGD-DP Can #37421	Air and Emissions	10/17/2012 1012
12J0580-05	MW #2 Can # 34166	Air and Emissions	10/17/2012 0947
12J0580-06	Field Blank Can # 36506	Air and Emissions	10/17/2012 1012

Client: University of Arizona- Risk Management Services
Project: Page Ranch - Air
Work Order: 12J0580
Date Received: 10/17/2012

Case Narrative

The TO-15 analyses were performed by Air Toxics, LTD. in Folsom, CA.

12J0580

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Lloyd Wundrock
Collected by: (Print and Sign) Jeff Christensen
Company UA Risk Management Email
Address PO Box 210300 City Tucson State AZ Zip 85721
Phone 520-621-1790 Fax 520-621-3706

Project Info:
P.O. #
Project #
Project Name PTRL SVE

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas:
☐ N_2 ☐ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	MW #5	3827	10/17/12	12:02	TO-15	26"	3"		
	SGS-SP		10/17/12		TO-15				
	SGS-SP Duplicate		10/17/12		TO-15				
	SGD-SP	12036	10/17/12	10:36	TO-15	27"	3"		
	SGD-MP	1734	10/17/12	10:47	TO-15	27"	3"		
	SGD-DP	37421	10/17/12	10:12	TO-15	25"	3"		
	MW #2	34166	10/17/12	9:47	TO-15	27"	3"		
	Field Blank	36506	10/17/12	10:12	TO-15	26"	3"		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	10/17/12 2:25		10/17/12 1425
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: No Sample for SGS-SP + SGS-SP Duplicate. Well Sampling valve broke off sampling port.
27.2°C

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
					Yes No None	

Form 1293 rev.11

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11/19/2012
Ms. Nancy Turner
Turner Laboratories, Inc.
2445 North Coyote Drive
Suite 104
Tucson AZ 85745

Project Name:
Project #:
Workorder #: 1210451

Dear Ms. Nancy Turner

The following report includes the data for the above referenced project for sample(s) received on 10/19/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1210451

Work Order Summary

CLIENT:	Ms. Nancy Turner Turner Laboratories, Inc. 2445 North Coyote Drive Suite 104 Tucson, AZ 85745	**BILL TO:**	Ms. Nancy Turner Turner Laboratories, Inc. 2445 North Coyote Drive Suite 104 Tucson, AZ 85745
PHONE:	520-882-5880	**P.O. #**	
FAX:	520-882-9788	**PROJECT #**	
DATE RECEIVED:	10/19/2012	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	11/05/2012		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	12J0580-01	Modified TO-15	6.0 "Hg	15 psi
02A	12J0580-02	Modified TO-15	6.5 "Hg	15 psi
03A	12J0580-03	Modified TO-15	6.5 "Hg	15 psi
04A	12J0580-04	Modified TO-15	7.5 "Hg	15 psi
05A	12J0580-05	Modified TO-15	7.5 "Hg	15 psi
06A	12J0580-06	Modified TO-15	7.5 "Hg	15 psi
07A	Lab Blank	Modified TO-15	NA	NA
07B	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
08B	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA
09AA	LCSD	Modified TO-15	NA	NA
09B	LCS	Modified TO-15	NA	NA
09BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 11/05/12

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Turner Laboratories, Inc.
Workorder# 1210451

Six 1 Liter Summa Canister samples were received on October 19, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples 12J0580-02, 12J0580-03, and 12J0580-04 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 12J0580-01

Lab ID#: 1210451-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	2.8	6.2	14
Freon 11	1.3	270	7.1	1500
Ethanol	5.0	13	9.5	24
Freon 113	1.3	4.4	9.6	34
Acetone	13	22	30	53
Carbon Tetrachloride	1.3	1.8	7.9	12
Benzene	1.3	2.4	4.0	7.5
Toluene	1.3	16	4.7	61
Tetrachloroethene	1.3	1.6	8.5	11
m,p-Xylene	1.3	4.1	5.5	18
o-Xylene	1.3	1.4	5.5	6.1
4-Ethyltoluene	1.3	1.8	6.2	9.1
1,2,4-Trimethylbenzene	1.3	1.9	6.2	9.4

Client Sample ID: 12J0580-02

Lab ID#: 1210451-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	220	800	1100	4000
Freon 11	220	11000	1200	63000
Freon 113	220	320	1600	2400
Chloroform	220	30000	1000	150000
Carbon Tetrachloride	220	630	1400	4000
Trichloroethene	220	870	1200	4700

Client Sample ID: 12J0580-03

Lab ID#: 1210451-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	260	2200	1300	11000
Freon 11	260	48000	1400	270000
Freon 113	260	1300	2000	10000
Chloroform	260	32000	1200	150000

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: 12J0580-03

Lab ID#: 1210451-03A

Carbon Tetrachloride	260	1600	1600	10000
Trichloroethene	260	1400	1400	7600

Client Sample ID: 12J0580-04

Lab ID#: 1210451-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	74	390	370	1900
Freon 11	74	11000	420	60000
Freon 113	74	250	570	1900
Chloroform	74	1700	360	8400
Carbon Tetrachloride	74	290	470	1800
Trichloroethene	74	230	400	1200

Client Sample ID: 12J0580-05

Lab ID#: 1210451-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	13	6.6	64
Freon 11	1.3	310	7.6	1800
Freon 113	1.3	4.1	10	32
Carbon Tetrachloride	1.3	6.6	8.5	41

Client Sample ID: 12J0580-06

Lab ID#: 1210451-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.3	1.8	7.6	10
Hexane	1.3	2.2	4.7	7.9

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Client Sample ID: 12J0580-01

Lab ID#: 1210451-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102521**	**Date of Collection:**	**10/17/12 12:02:00 P**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/25/12 08:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	2.8	6.2	14
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.3	270	7.1	1500
Ethanol	5.0	13	9.5	24
Freon 113	1.3	4.4	9.6	34
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	22	30	53
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.3	1.8	7.9	12
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
Benzene	1.3	2.4	4.0	7.5
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	16	4.7	61
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	1.6	8.5	11
2-Hexanone	5.0	Not Detected	21	Not Detected

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Client Sample ID: 12J0580-01

Lab ID#: 1210451-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102521**	**Date of Collection:**	**10/17/12 12:02:00 P**
Dil. Factor:	**2.52**	**Date of Analysis:**	**10/25/12 08:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	4.1	5.5	18
o-Xylene	1.3	1.4	5.5	6.1
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.6	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	1.8	6.2	9.1
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	1.9	6.2	9.4
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	85	70-130

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Client Sample ID: 12J0580-02

Lab ID#: 1210451-02A

EPA METHOD TO-15 GC/MS

File Name:	**14102527**	**Date of Collection:**	**10/17/12 10:36:00 A**
Dil. Factor:	**43.0**	**Date of Analysis:**	**10/25/12 11:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	220	800	1100	4000
Freon 114	220	Not Detected	1500	Not Detected
Chloromethane	860	Not Detected	1800	Not Detected
Vinyl Chloride	220	Not Detected	550	Not Detected
1,3-Butadiene	220	Not Detected	480	Not Detected
Bromomethane	220	Not Detected	830	Not Detected
Chloroethane	860	Not Detected	2300	Not Detected
Freon 11	220	11000	1200	63000
Ethanol	860	Not Detected	1600	Not Detected
Freon 113	220	320	1600	2400
1,1-Dichloroethene	220	Not Detected	850	Not Detected
Acetone	860	Not Detected	2000	Not Detected
2-Propanol	860	Not Detected	2100	Not Detected
Carbon Disulfide	220	Not Detected	670	Not Detected
3-Chloropropene	860	Not Detected	2700	Not Detected
Methylene Chloride	220	Not Detected	750	Not Detected
Methyl tert-butyl ether	220	Not Detected	780	Not Detected
trans-1,2-Dichloroethene	220	Not Detected	850	Not Detected
Hexane	220	Not Detected	760	Not Detected
1,1-Dichloroethane	220	Not Detected	870	Not Detected
2-Butanone (Methyl Ethyl Ketone)	860	Not Detected	2500	Not Detected
cis-1,2-Dichloroethene	220	Not Detected	850	Not Detected
Tetrahydrofuran	220	Not Detected	630	Not Detected
Chloroform	220	30000	1000	150000
1,1,1-Trichloroethane	220	Not Detected	1200	Not Detected
Cyclohexane	220	Not Detected	740	Not Detected
Carbon Tetrachloride	220	630	1400	4000
2,2,4-Trimethylpentane	220	Not Detected	1000	Not Detected
Benzene	220	Not Detected	690	Not Detected
1,2-Dichloroethane	220	Not Detected	870	Not Detected
Heptane	220	Not Detected	880	Not Detected
Trichloroethene	220	870	1200	4700
1,2-Dichloropropane	220	Not Detected	990	Not Detected
1,4-Dioxane	860	Not Detected	3100	Not Detected
Bromodichloromethane	220	Not Detected	1400	Not Detected
cis-1,3-Dichloropropene	220	Not Detected	980	Not Detected
4-Methyl-2-pentanone	220	Not Detected	880	Not Detected
Toluene	220	Not Detected	810	Not Detected
trans-1,3-Dichloropropene	220	Not Detected	980	Not Detected
1,1,2-Trichloroethane	220	Not Detected	1200	Not Detected
Tetrachloroethene	220	Not Detected	1400	Not Detected
2-Hexanone	860	Not Detected	3500	Not Detected

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Client Sample ID: 12J0580-02

Lab ID#: 1210451-02A

EPA METHOD TO-15 GC/MS

File Name:	**14102527**	**Date of Collection:**	**10/17/12 10:36:00 A**
Dil. Factor:	**43.0**	**Date of Analysis:**	**10/25/12 11:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	220	Not Detected	1800	Not Detected
1,2-Dibromoethane (EDB)	220	Not Detected	1600	Not Detected
Chlorobenzene	220	Not Detected	990	Not Detected
Ethyl Benzene	220	Not Detected	930	Not Detected
m,p-Xylene	220	Not Detected	930	Not Detected
o-Xylene	220	Not Detected	930	Not Detected
Styrene	220	Not Detected	920	Not Detected
Bromoform	220	Not Detected	2200	Not Detected
Cumene	220	Not Detected	1000	Not Detected
1,1,2,2-Tetrachloroethane	220	Not Detected	1500	Not Detected
Propylbenzene	220	Not Detected	1000	Not Detected
4-Ethyltoluene	220	Not Detected	1000	Not Detected
1,3,5-Trimethylbenzene	220	Not Detected	1000	Not Detected
1,2,4-Trimethylbenzene	220	Not Detected	1000	Not Detected
1,3-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	220	Not Detected	1300	Not Detected
alpha-Chlorotoluene	220	Not Detected	1100	Not Detected
1,2-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	860	Not Detected	6400	Not Detected
Hexachlorobutadiene	860	Not Detected	9200	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: 12J0580-03

Lab ID#: 1210451-03A

EPA METHOD TO-15 GC/MS

File Name:	**14102528**	**Date of Collection:**	**10/17/12 10:47:00 A**
Dil. Factor:	**51.6**	**Date of Analysis:**	**10/25/12 11:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	260	2200	1300	11000
Freon 114	260	Not Detected	1800	Not Detected
Chloromethane	1000	Not Detected	2100	Not Detected
Vinyl Chloride	260	Not Detected	660	Not Detected
1,3-Butadiene	260	Not Detected	570	Not Detected
Bromomethane	260	Not Detected	1000	Not Detected
Chloroethane	1000	Not Detected	2700	Not Detected
Freon 11	260	48000	1400	270000
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	260	1300	2000	10000
1,1-Dichloroethene	260	Not Detected	1000	Not Detected
Acetone	1000	Not Detected	2400	Not Detected
2-Propanol	1000	Not Detected	2500	Not Detected
Carbon Disulfide	260	Not Detected	800	Not Detected
3-Chloropropene	1000	Not Detected	3200	Not Detected
Methylene Chloride	260	Not Detected	900	Not Detected
Methyl tert-butyl ether	260	Not Detected	930	Not Detected
trans-1,2-Dichloroethene	260	Not Detected	1000	Not Detected
Hexane	260	Not Detected	910	Not Detected
1,1-Dichloroethane	260	Not Detected	1000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1000	Not Detected	3000	Not Detected
cis-1,2-Dichloroethene	260	Not Detected	1000	Not Detected
Tetrahydrofuran	260	Not Detected	760	Not Detected
Chloroform	260	32000	1200	150000
1,1,1-Trichloroethane	260	Not Detected	1400	Not Detected
Cyclohexane	260	Not Detected	890	Not Detected
Carbon Tetrachloride	260	1600	1600	10000
2,2,4-Trimethylpentane	260	Not Detected	1200	Not Detected
Benzene	260	Not Detected	820	Not Detected
1,2-Dichloroethane	260	Not Detected	1000	Not Detected
Heptane	260	Not Detected	1000	Not Detected
Trichloroethene	260	1400	1400	7600
1,2-Dichloropropane	260	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3700	Not Detected
Bromodichloromethane	260	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	260	Not Detected	1200	Not Detected
4-Methyl-2-pentanone	260	Not Detected	1000	Not Detected
Toluene	260	Not Detected	970	Not Detected
trans-1,3-Dichloropropene	260	Not Detected	1200	Not Detected
1,1,2-Trichloroethane	260	Not Detected	1400	Not Detected
Tetrachloroethene	260	Not Detected	1800	Not Detected
2-Hexanone	1000	Not Detected	4200	Not Detected

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Client Sample ID: 12J0580-03

Lab ID#: 1210451-03A

EPA METHOD TO-15 GC/MS

File Name:	**14102528**	**Date of Collection:**	**10/17/12 10:47:00 A**
Dil. Factor:	**51.6**	**Date of Analysis:**	**10/25/12 11:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	260	Not Detected	2200	Not Detected
1,2-Dibromoethane (EDB)	260	Not Detected	2000	Not Detected
Chlorobenzene	260	Not Detected	1200	Not Detected
Ethyl Benzene	260	Not Detected	1100	Not Detected
m,p-Xylene	260	Not Detected	1100	Not Detected
o-Xylene	260	Not Detected	1100	Not Detected
Styrene	260	Not Detected	1100	Not Detected
Bromoform	260	Not Detected	2700	Not Detected
Cumene	260	Not Detected	1300	Not Detected
1,1,2,2-Tetrachloroethane	260	Not Detected	1800	Not Detected
Propylbenzene	260	Not Detected	1300	Not Detected
4-Ethyltoluene	260	Not Detected	1300	Not Detected
1,3,5-Trimethylbenzene	260	Not Detected	1300	Not Detected
1,2,4-Trimethylbenzene	260	Not Detected	1300	Not Detected
1,3-Dichlorobenzene	260	Not Detected	1600	Not Detected
1,4-Dichlorobenzene	260	Not Detected	1600	Not Detected
alpha-Chlorotoluene	260	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	260	Not Detected	1600	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7600	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: 12J0580-04

Lab ID#: 1210451-04A

EPA METHOD TO-15 GC/MS

File Name:	**14102529**	**Date of Collection:**	**10/17/12 10:12:00 A**
Dil. Factor:	**14.9**	**Date of Analysis:**	**10/26/12 12:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	74	390	370	1900
Freon 114	74	Not Detected	520	Not Detected
Chloromethane	300	Not Detected	620	Not Detected
Vinyl Chloride	74	Not Detected	190	Not Detected
1,3-Butadiene	74	Not Detected	160	Not Detected
Bromomethane	74	Not Detected	290	Not Detected
Chloroethane	300	Not Detected	790	Not Detected
Freon 11	74	11000	420	60000
Ethanol	300	Not Detected	560	Not Detected
Freon 113	74	250	570	1900
1,1-Dichloroethene	74	Not Detected	300	Not Detected
Acetone	300	Not Detected	710	Not Detected
2-Propanol	300	Not Detected	730	Not Detected
Carbon Disulfide	74	Not Detected	230	Not Detected
3-Chloropropene	300	Not Detected	930	Not Detected
Methylene Chloride	74	Not Detected	260	Not Detected
Methyl tert-butyl ether	74	Not Detected	270	Not Detected
trans-1,2-Dichloroethene	74	Not Detected	300	Not Detected
Hexane	74	Not Detected	260	Not Detected
1,1-Dichloroethane	74	Not Detected	300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	300	Not Detected	880	Not Detected
cis-1,2-Dichloroethene	74	Not Detected	300	Not Detected
Tetrahydrofuran	74	Not Detected	220	Not Detected
Chloroform	74	1700	360	8400
1,1,1-Trichloroethane	74	Not Detected	410	Not Detected
Cyclohexane	74	Not Detected	260	Not Detected
Carbon Tetrachloride	74	290	470	1800
2,2,4-Trimethylpentane	74	Not Detected	350	Not Detected
Benzene	74	Not Detected	240	Not Detected
1,2-Dichloroethane	74	Not Detected	300	Not Detected
Heptane	74	Not Detected	300	Not Detected
Trichloroethene	74	230	400	1200
1,2-Dichloropropane	74	Not Detected	340	Not Detected
1,4-Dioxane	300	Not Detected	1100	Not Detected
Bromodichloromethane	74	Not Detected	500	Not Detected
cis-1,3-Dichloropropene	74	Not Detected	340	Not Detected
4-Methyl-2-pentanone	74	Not Detected	300	Not Detected
Toluene	74	Not Detected	280	Not Detected
trans-1,3-Dichloropropene	74	Not Detected	340	Not Detected
1,1,2-Trichloroethane	74	Not Detected	410	Not Detected
Tetrachloroethene	74	Not Detected	500	Not Detected
2-Hexanone	300	Not Detected	1200	Not Detected

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Client Sample ID: 12J0580-04

Lab ID#: 1210451-04A

EPA METHOD TO-15 GC/MS

File Name:	**14102529**	**Date of Collection:**	**10/17/12 10:12:00 A**
Dil. Factor:	**14.9**	**Date of Analysis:**	**10/26/12 12:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	74	Not Detected	630	Not Detected
1,2-Dibromoethane (EDB)	74	Not Detected	570	Not Detected
Chlorobenzene	74	Not Detected	340	Not Detected
Ethyl Benzene	74	Not Detected	320	Not Detected
m,p-Xylene	74	Not Detected	320	Not Detected
o-Xylene	74	Not Detected	320	Not Detected
Styrene	74	Not Detected	320	Not Detected
Bromoform	74	Not Detected	770	Not Detected
Cumene	74	Not Detected	370	Not Detected
1,1,2,2-Tetrachloroethane	74	Not Detected	510	Not Detected
Propylbenzene	74	Not Detected	370	Not Detected
4-Ethyltoluene	74	Not Detected	370	Not Detected
1,3,5-Trimethylbenzene	74	Not Detected	370	Not Detected
1,2,4-Trimethylbenzene	74	Not Detected	370	Not Detected
1,3-Dichlorobenzene	74	Not Detected	450	Not Detected
1,4-Dichlorobenzene	74	Not Detected	450	Not Detected
alpha-Chlorotoluene	74	Not Detected	380	Not Detected
1,2-Dichlorobenzene	74	Not Detected	450	Not Detected
1,2,4-Trichlorobenzene	300	Not Detected	2200	Not Detected
Hexachlorobutadiene	300	Not Detected	3200	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: 12J0580-05

Lab ID#: 1210451-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102522**	**Date of Collection:**	**10/17/12 9:47:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/25/12 08:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	13	6.6	64
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	310	7.6	1800
Ethanol	5.4	Not Detected	10	Not Detected
Freon 113	1.3	4.1	10	32
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	13	Not Detected	32	Not Detected
2-Propanol	5.4	Not Detected	13	Not Detected
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	13	Not Detected	47	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	Not Detected	4.7	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	Not Detected	6.6	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	6.6	8.5	41
2,2,4-Trimethylpentane	1.3	Not Detected	6.3	Not Detected
Benzene	1.3	Not Detected	4.3	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.5	Not Detected
Toluene	1.3	Not Detected	5.1	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
2-Hexanone	5.4	Not Detected	22	Not Detected

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Client Sample ID: 12J0580-05

Lab ID#: 1210451-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102522**	**Date of Collection:**	**10/17/12 9:47:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/25/12 08:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	Not Detected	5.8	Not Detected
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	86	70-130

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Client Sample ID: 12J0580-06

Lab ID#: 1210451-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102523**	**Date of Collection:**	**10/17/12 10:12:00 A**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/25/12 09:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.6	Not Detected
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	1.8	7.6	10
Ethanol	5.4	Not Detected	10	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	13	Not Detected	32	Not Detected
2-Propanol	5.4	Not Detected	13	Not Detected
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	13	Not Detected	47	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	2.2	4.7	7.9
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	Not Detected	6.6	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.3	Not Detected
Benzene	1.3	Not Detected	4.3	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.5	Not Detected
Toluene	1.3	Not Detected	5.1	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
2-Hexanone	5.4	Not Detected	22	Not Detected

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Client Sample ID: 12J0580-06

Lab ID#: 1210451-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102523**	**Date of Collection:**	**10/17/12 10:12:00 A**
Dil. Factor:	**2.69**	**Date of Analysis:**	**10/25/12 09:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	Not Detected	5.8	Not Detected
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	82	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210451-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102510**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 01:59 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210451-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102510**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 01:59 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	78	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1210451-07B

EPA METHOD TO-15 GC/MS

File Name:	**14102506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 11:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1210451-07B

EPA METHOD TO-15 GC/MS

File Name:	**14102506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 11:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1210451-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 09:34 AM**	

Compound	%Recovery
Freon 12	114
Freon 114	101
Chloromethane	118
Vinyl Chloride	97
1,3-Butadiene	88
Bromomethane	96
Chloroethane	102
Freon 11	113
Ethanol	91
Freon 113	96
1,1-Dichloroethene	93
Acetone	97
2-Propanol	97
Carbon Disulfide	98
3-Chloropropene	97
Methylene Chloride	102
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	97
Hexane	92
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	95
Tetrahydrofuran	98
Chloroform	110
1,1,1-Trichloroethane	106
Cyclohexane	98
Carbon Tetrachloride	115
2,2,4-Trimethylpentane	92
Benzene	107
1,2-Dichloroethane	126
Heptane	109
Trichloroethene	114
1,2-Dichloropropane	106
1,4-Dioxane	102
Bromodichloromethane	119
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	90
Toluene	105
trans-1,3-Dichloropropene	124
1,1,2-Trichloroethane	122
Tetrachloroethene	112
2-Hexanone	105

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Client Sample ID: CCV

Lab ID#: 1210451-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 09:34 AM**	

Compound	**%Recovery**
Dibromochloromethane	124
1,2-Dibromoethane (EDB)	120
Chlorobenzene	101
Ethyl Benzene	112
m,p-Xylene	111
o-Xylene	110
Styrene	102
Bromoform	113
Cumene	114
1,1,2,2-Tetrachloroethane	124
Propylbenzene	123
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	81	70-130

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Client Sample ID: CCV

Lab ID#: 1210451-08B

EPA METHOD TO-15 GC/MS

File Name:	**14102502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 10:23 AM**	

Compound	%Recovery
Freon 12	109
Freon 114	104
Chloromethane	101
Vinyl Chloride	95
1,3-Butadiene	88
Bromomethane	86
Chloroethane	88
Freon 11	107
Ethanol	98
Freon 113	100
1,1-Dichloroethene	103
Acetone	99
2-Propanol	91
Carbon Disulfide	96
3-Chloropropene	92
Methylene Chloride	105
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	101
Hexane	96
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	103
Tetrahydrofuran	95
Chloroform	98
1,1,1-Trichloroethane	96
Cyclohexane	95
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	99
Benzene	98
1,2-Dichloroethane	104
Heptane	98
Trichloroethene	97
1,2-Dichloropropane	101
1,4-Dioxane	96
Bromodichloromethane	101
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	90
Toluene	96
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	100
Tetrachloroethene	98
2-Hexanone	90

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Client Sample ID: CCV

Lab ID#: 1210451-08B

EPA METHOD TO-15 GC/MS

File Name:	**14102502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 10:23 AM**	

Compound	**%Recovery**
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	100
Chlorobenzene	99
Ethyl Benzene	94
m,p-Xylene	94
o-Xylene	96
Styrene	98
Bromoform	112
Cumene	99
1,1,2,2-Tetrachloroethane	102
Propylbenzene	99
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	102

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210451-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 10:07 AM**	

Compound	**%Recovery**
Freon 12	121
Freon 114	105
Chloromethane	119
Vinyl Chloride	103
1,3-Butadiene	92
Bromomethane	100
Chloroethane	103
Freon 11	117
Ethanol	88
Freon 113	102
1,1-Dichloroethene	100
Acetone	109
2-Propanol	96
Carbon Disulfide	126
3-Chloropropene	111
Methylene Chloride	104
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	110
Hexane	95
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	98
Tetrahydrofuran	97
Chloroform	114
1,1,1-Trichloroethane	110
Cyclohexane	100
Carbon Tetrachloride	119
2,2,4-Trimethylpentane	91
Benzene	115
1,2-Dichloroethane	130
Heptane	112
Trichloroethene	118
1,2-Dichloropropane	114
1,4-Dioxane	103
Bromodichloromethane	125
cis-1,3-Dichloropropene	117
4-Methyl-2-pentanone	95
Toluene	108
trans-1,3-Dichloropropene	125
1,1,2-Trichloroethane	120
Tetrachloroethene	110
2-Hexanone	102

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210451-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 10:07 AM**	

Compound	**%Recovery**
Dibromochloromethane	124
1,2-Dibromoethane (EDB)	120
Chlorobenzene	102
Ethyl Benzene	114
m,p-Xylene	111
o-Xylene	110
Styrene	98
Bromoform	112
Cumene	115
1,1,2,2-Tetrachloroethane	128
Propylbenzene	124
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	80	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210451-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 10:26 AM**	

Compound	**%Recovery**
Freon 12	116
Freon 114	101
Chloromethane	116
Vinyl Chloride	99
1,3-Butadiene	89
Bromomethane	96
Chloroethane	104
Freon 11	113
Ethanol	87
Freon 113	99
1,1-Dichloroethene	99
Acetone	105
2-Propanol	94
Carbon Disulfide	123
3-Chloropropene	113
Methylene Chloride	104
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	108
Hexane	93
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	97
Tetrahydrofuran	97
Chloroform	114
1,1,1-Trichloroethane	109
Cyclohexane	100
Carbon Tetrachloride	117
2,2,4-Trimethylpentane	92
Benzene	110
1,2-Dichloroethane	124
Heptane	107
Trichloroethene	113
1,2-Dichloropropane	108
1,4-Dioxane	98
Bromodichloromethane	117
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	88
Toluene	102
trans-1,3-Dichloropropene	120
1,1,2-Trichloroethane	119
Tetrachloroethene	108
2-Hexanone	99

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210451-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**j102505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 10:26 AM**	

Compound	**%Recovery**
Dibromochloromethane	119
1,2-Dibromoethane (EDB)	118
Chlorobenzene	100
Ethyl Benzene	108
m,p-Xylene	108
o-Xylene	106
Styrene	94
Bromoform	106
Cumene	112
1,1,2,2-Tetrachloroethane	123
Propylbenzene	122
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	84	70-130

eurofins | Air Toxics

Client Sample ID: LCS
Lab ID#: 1210451-09B
EPA METHOD TO-15 GC/MS

File Name:	**14102503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 10:47 AM**	

Compound	%Recovery
Freon 12	105
Freon 114	99
Chloromethane	101
Vinyl Chloride	95
1,3-Butadiene	84
Bromomethane	104
Chloroethane	105
Freon 11	102
Ethanol	92
Freon 113	98
1,1-Dichloroethene	103
Acetone	97
2-Propanol	86
Carbon Disulfide	116
3-Chloropropene	101
Methylene Chloride	99
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	107
Hexane	90
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	99
Tetrahydrofuran	87
Chloroform	96
1,1,1-Trichloroethane	94
Cyclohexane	92
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	93
Benzene	95
1,2-Dichloroethane	98
Heptane	91
Trichloroethene	95
1,2-Dichloropropane	95
1,4-Dioxane	87
Bromodichloromethane	99
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	85
Toluene	92
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	95
Tetrachloroethene	92
2-Hexanone	85

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1210451-09B

EPA METHOD TO-15 GC/MS

File Name:	**14102503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 10:47 AM**	

Compound	**%Recovery**
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	99
Chlorobenzene	95
Ethyl Benzene	91
m,p-Xylene	95
o-Xylene	92
Styrene	95
Bromoform	107
Cumene	97
1,1,2,2-Tetrachloroethane	101
Propylbenzene	99
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	114

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210451-09BB

EPA METHOD TO-15 GC/MS

File Name:	**14102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 11:06 AM**	

Compound	**%Recovery**
Freon 12	101
Freon 114	96
Chloromethane	99
Vinyl Chloride	92
1,3-Butadiene	81
Bromomethane	102
Chloroethane	104
Freon 11	101
Ethanol	80
Freon 113	95
1,1-Dichloroethene	101
Acetone	92
2-Propanol	84
Carbon Disulfide	114
3-Chloropropene	97
Methylene Chloride	97
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	104
Hexane	88
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	98
Tetrahydrofuran	86
Chloroform	94
1,1,1-Trichloroethane	92
Cyclohexane	91
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	92
Benzene	94
1,2-Dichloroethane	98
Heptane	88
Trichloroethene	94
1,2-Dichloropropane	95
1,4-Dioxane	86
Bromodichloromethane	98
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	83
Toluene	92
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	95
Tetrachloroethene	92
2-Hexanone	84

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1210451-09BB

EPA METHOD TO-15 GC/MS

File Name:	**14102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/12 11:06 AM**	

Compound	**%Recovery**
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	98
Chlorobenzene	96
Ethyl Benzene	91
m,p-Xylene	94
o-Xylene	92
Styrene	93
Bromoform	106
Cumene	97
1,1,2,2-Tetrachloroethane	100
Propylbenzene	100
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	126
Hexachlorobutadiene	116

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

SUBCONTRACT ORDER

Turner Laboratories, Inc.

12J0580

SENDING LABORATORY:

Turner Laboratories, Inc.
2445 N. Coyote Drive, Ste #104
Tucson, AZ 85745
Phone: 520.882.5880
Fax: 520.882.9788
Project Manager: Terri Garcia

RECEIVING LABORATORY:

Air Toxics Ltd.
180 Blue Ravine Rd., Suite B
Folsom, CA 95630
Phone :(800) 985-5955
Fax:

Analysis	Expires	Comments
Sample ID: 12J0580-01 Air and Emissio Sampled:10/17/2012 12:02		
TO15Mod	10/24/2012 12:02	
01A TO15	10/24/2012 12:02	
Containers Supplied:		
Sample ID: 12J0580-02 Air and Emissio Sampled:10/17/2012 10:36		
TO15Mod	10/24/2012 10:36	
02A TO15	10/24/2012 10:36	
Containers Supplied:		
Sample ID: 12J0580-03 Air and Emissio Sampled:10/17/2012 10:47		
TO15Mod	10/24/2012 10:47	
03A TO15	10/24/2012 10:47	
Containers Supplied:		
Sample ID: 12J0580-04 Air and Emissio Sampled:10/17/2012 10:12		
TO15Mod	10/24/2012 10:12	
04A TO15	10/24/2012 10:12	
Containers Supplied:		
Sample ID: 12J0580-05 Air and Emissio Sampled:10/17/2012 09:47		
TO15Mod	10/24/2012 09:47	
05A TO15	10/24/2012 09:47	
Containers Supplied:		

Released By	10/18/12 1000 Date	Received By ATL	10/19/12 0830 Date
Released By	Date	Received By	Date

Custody Seal Intact? Y N None Temp N/A 1210451

SUBCONTRACT ORDER

Turner Laboratories, Inc.

12J0580

Analysis	Expires	Comments
Sample ID: 12J0580-06 Air and Emissio Sampled:10/17/2012 10:12		
TO15Mod	10/24/2012 10:12	
TO15	10/24/2012 10:12	
Containers Supplied:		

Released By 10-18-12 Date 1000 Received By Date 10/20/12 10/19/12 1030

Released By Date Received By Date 1210451

Custody Seal Intact?
Y N None Temp N/A

Attachment 4 – Soil Vapor Sampling Logs (CD only)

Page Trowbridge Ranch Landfill

Soil Vapor Monitoring

Date: 10/17/12

Sampling Location: MW#2 | Sampler: Jeff Christensen

Begin Purge Time: 9:35 | End Purge Time: 9:45

Packer Pressure: 25 psi | Sampled At: 9:47

Canister #: 34166 | Canister #:

Original "Inches Hg": 27" | Final "Inches Hg": 8"

Date: 10/17/12

Sampling Location: SGD-DP | Sampler: Jeff Christensen

Begin Purge Time: 10:06 | End Purge Time: 10:07

Packer Pressure: | Sampled At: 10:12

Canister #: 37421 | Canister #:

Original "Inches Hg": 25" | Final "Inches Hg": 9"

Date: 10/17/12

Sampling Location: Field Blank | Sampler: Jeff Christensen

Begin Purge Time: | End Purge Time:

Packer Pressure: | Sampled At: 10:12

Canister #: 36506 | Canister #:

Original "Inches Hg": 26" | Final "Inches Hg": 3"

Page Trowbridge Ranch Landfill

Soil Vapor Monitoring

Date: 10/17/12

Sampling Location: SGD-SP

Sampler: Jeff Christen

Begin Purge Time: 10:35

End Purge Time: 10:36

Packer Pressure:

Sampled At: 10:36

Canister #: 12036

Canister #:

Original "Inches Hg": 27"

Final "Inches Hg": 3"

Date: 10/17/12

Sampling Location: SGD-7P

Sampler: Jeff Christen

Begin Purge Time: 10:45

End Purge Time: 10:46

Packer Pressure:

Sampled At: 10:47

Canister #: 1734

Canister #:

Original "Inches Hg": 27"

Final "Inches Hg": 3"

Date: 10/17/12 No Samples Dipple Port ~~Vault~~ Valve Broke

Sampling Location: SGS-SP

Sampler: Jeff Christen

Begin Purge Time: 11:00

End Purge Time: 11:00

Packer Pressure:

Sampled At:

Canister #: 34165

Canister #: 13390

Original "Inches Hg": 34165 28" / 13390 27"

Final "Inches Hg":

Page Trowbridge Ranch Landfill

Soil Vapor Monitoring

Date: 10/17/12

Sampling Location: TW #5

Sampler: Jeff Christensen

Begin Purge Time: 11:28

End Purge Time: 12:01

Packer Pressure: 20 psi

Sampled At: 12:02

Canister #: 3827

Canister #:

Original "Inches Hg": 26"

Final "Inches Hg": 3"

Date:

Sampling Location:

Sampler:

Begin Purge Time:

End Purge Time:

Packer Pressure:

Sampled At:

Canister #:

Canister #:

Original "Inches Hg":

Final "Inches Hg":

Date:

Sampling Location:

Sampler:

Begin Purge Time:

End Purge Time:

Packer Pressure:

Sampled At:

Canister #:

Canister #:

Original "Inches Hg":

Final "Inches Hg":

Attachment 5 – Groundwater Sampling Logs (CD only)

PAGE RANCH LANDFILL POST-CLOSURE PERIOD
GROUNDWATER DETECTION MONITORING

GROUNDWATER SAMPLING LOG

Date: 10/17/11 Well Number: #2

Sampling Personnel (Print): Michael Holcomb Mike Garcia LM Wundrock

Signature(s): 4/18/11 650.55 M. Garcia LM Wundrock

Depth to Groundwater

Trial 1	Trial 2	Trial 3	Average Depth
650.61	650.67	650.91	650.73

650.73

1. 650 + .59 + .02
2. 650 + .63 + .02
3. 650 + .59 + .02

LMW

Well depth = 800 feet (ft)
Static water depth (typical) = 650 ft
Casing Diameter = 4 inches (150 ft of water in casing)

Casing volume = area x height = (0.0873 ft^2) x (150 ft) = 13.1 ft^3
13.1 ft^3 x 7.48 gallons/ft^3 = 98 gallons
3 casing volumes = 294 gallons

Discharge pipe volume = area x height = (0.0218 ft^2) x 650 ft) = 14.2 ft^3
14.2 ft^3 x 7.48 gallons/ft^3 = 106 gallons

Total volume of 3 casing volumes + discharge pipe = 400 gallons

Beginning Purge Time: 10:45 Ending Purge Time: 11:32

33.2 sec = 0.536 min 18.6 GPM

Purge Flow Rate: _____ Total Volume Purged: 874 gallons

Color: _____ Clarity: _____

pH/Conductivity/Temperature (see reverse side)

Samples Collected for (in order of collection):

1. VOCs (Method 524.2) ____
2. Semi-VOCs (Method 8270C) ____
3. Organochlorine Pesticides (Method 8081A) ____
4. Mn, Na (Method 200.7) ____
5. SO_4/Cl (Method 300.0) ____
6. Gross Alpha/Beta ____

Laboratory: _____

TIME	ELAPSED TIME	TEMP	CONDUCT	PH	APPEARANCE
		± 1° C	± 10%	± 0.3 Units	
10:45	ZERO				
10:55	10	24.9	161	7.94	MED RUST
11:00	15	25.0	170	7.98	LIGHT RUST
11:05	20	24.9	180	8.01	LIGHT RUST
11:10	25	25.1	180	8.05	LIGHT RUST
11:15	30	24.5	180	8.09	LIGHT RUST

Remarks: Well Stabilized: Y X N___ If the three characteristics do not stabilize after 40 minutes the well will be sampled.

PAGE RANCH LANDFILL POST-CLOSURE PERIOD
GROUNDWATER DETECTION MONITORING

GROUNDWATER SAMPLING LOG

Date: 10/17/12 Well Number: #3

Sampling Personnel (Print): Michael Halcomb Mike Garcia LM WUNDROCK

Signature(s): M. Garcia LM Wundrock

4/17/12 652.1

Depth to Groundwater

Trial 1	Trial 2	Trial 3	Average Depth
653	652.98	652.88	652.95

LMW

1. 655 - 1.96 - .04
2. 655 - 1.98 - .04
3. 655 - 2.08 - .04

Well depth = 800 feet (ft)
Static water depth (typical) = 650 ft
Casing Diameter = 4 inches (150 ft of water in casing)

Casing volume = area x height = (0.0873 ft^2) x (150 ft) = 13.1 ft^3
13.1 ft^3 x 7.48 gallons/ft^3 = 98 gallons
3 casing volumes = 294 gallons

Discharge pipe volume = area x height = (0.0218 ft^2) x 650 ft) = 14.2 ft^3
14.2 ft^3 x 7.48 gallons/ft^3 = 106 gallons

Total volume of 3 casing volumes + discharge pipe = 400 gallons

Beginning Purge Time: 0939 Ending Purge Time: 10:36

10 gal/38 min

Purge Flow Rate: 15.96 PM Total Volume Purged: 912 gal

Color: _____ Clarity: _____

pH/Conductivity/Temperature (see reverse side)

Samples Collected for (in order of collection):

1. VOCs (Method 524.2) X
2. Semi-VOCs (Method 8270C) X
3. Organochlorine Pesticides (Method 8081A) X
4. Mn, Na (Method 200.7) X
5. SO_4/Cl (Method 300.0) X
6. Gross Alpha/Beta X

Laboratory: _____

TIME	ELAPSED TIME	TEMP	CONDUCT	PH	APPEARANCE
		± 1° C	± 10%	± 0.3 Units	
0939	ZERO				
0949	10	25.3	180	8.18	LIGHT RUST
0954	15	24.3	180	8.17	LIGHT RUST
0959	20	23.9	182	8.13	LIGHT RUST
1004	25	23.7	170	8.15	LIGHT RUST
1009	30	24.8	170	8.19	LIGHT RUST
1014	35	23.9	170	8.19	LIGHT RUST
1019	40	24.1	180	8.14	LIGHT RUST

Remarks: **Well Stabilized: Y__ N X If the three characteristics do not stabilize after 40 minutes the well will be sampled.**

PAGE RANCH LANDFILL POST-CLOSURE PERIOD
GROUNDWATER DETECTION MONITORING

GROUNDWATER SAMPLING LOG

Date: 10/17/12 Well Number: #4

Sampling Personnel (Print): Michael Holcomb Mike Garcia LM Wyndbrock

Signature(s): M. Garcia LM Wyndbrock

4/10/12 652.54

Depth to Groundwater

Trial 1	Trial 2	Trial 3	Average Depth
652.82	652.65	652.53	652.66

1. 650 + 2.80 + .02
2. 650 + 2.63 + .02
3. 650 + 2.51 + .02

652.66

LMW

Well depth = 800 feet (ft)
Static water depth (typical) = 650 ft
Casing Diameter = 4 inches (150 ft of water in casing)

Casing volume = area x height = (0.0873 ft^2) x (150 ft) = 13.1 ft^3
13.1 ft^3 x 7.48 gallons/ft^3 = 98 gallons
3 casing volumes = 294 gallons

Discharge pipe volume = area x height = (0.0218 ft^2) x 650 ft) = 14.2 ft^3
14.2 ft^3 x 7.48 gallons/ft^3 = 106 gallons

Total volume of 3 casing volumes + discharge pipe = 400 gallons

Beginning Purge Time: 11:40 Ending Purge Time: 12:34

235 seconds 5 gal

Purge Flow Rate: 13.05 GPM Total Volume Purged: 705 gal

Color: _____ Clarity: _____

pH/Conductivity/Temperature (see reverse side)

Samples Collected for (in order of collection):

1. VOCs (Method 524.2) X
2. Semi-VOCs (Method 8270C) X
3. Organochlorine Pesticides (Method 8081A) X
4. Mn, Na (Method 200.7) ____
5. SO_4/Cl (Method 300.0) ____
6. Gross Alpha/Beta ____

Laboratory: _____

TIME	ELAPSED TIME	TEMP	CONDUCT	PH	APPEARANCE
		± 1° C	± 10%	± 0.3 Units	
11:40	ZERO				
11:50	10	27.6	182	8.22	CLEAR
11:55	15	28.0	190	8.19	CLEAR
12:00	20	28.3	180	8.23	CLEAR
12:05	25	27.6	185	8.29	CLEAR
12:10	30	28.7	180	8.19	CLEAR
12:15	35	28.1	180	8.24	CLEAR
12:20	40	28.2	180	8.19	CLEAR

Remarks: **Well Stabilized: Y___ N_X_ If the three characteristics do not stabilize after 40 minutes the well will be sampled.**

PAGE RANCH LANDFILL POST-CLOSURE PERIOD
GROUNDWATER DETECTION MONITORING

GROUNDWATER SAMPLING LOG

Date: 10/17/12 **Well Number:** #5

Sampling Personnel (Print): Michael Holcomb Mike Garcia LM WANDROCK

Signature(s): M. Holcomb M. Garcia Lm Wandrock

4/1x/1c 662.50

1. 665 - 1.57 - .71

Depth to Groundwater

2. 665 - 1.57 - .71

Trial 1	Trial 2	Trial 3	Average Depth
662.75	662.72	662.92	662.79

3. 665 - 1.37 - .71

662.79 LMW

Well depth = 800 feet (ft)
Static water depth (typical) = 650 ft
Casing Diameter = 4 inches (150 ft of water in casing)

Casing volume = area x height = (0.0873 ft^2) x (150 ft) = 13.1 ft^3
13.1 ft^3 x 7.48 gallons/ft^3 = 98 gallons
3 casing volumes = 294 gallons

Discharge pipe volume = area x height = (0.0218 ft^2) x 650 ft) = 14.2 ft^3
14.2 ft^3 x 7.48 gallons/ft^3 = 106 gallons

Total volume of 3 casing volumes + discharge pipe = 400 gallons

Beginning Purge Time: 0946 hrs **Ending Purge Time:** 0935

Purge Flow Rate: 16.7 GPM **Total Volume Purged:** 818.3 gal

Color: _____ **Clarity:** _____

pH/Conductivity/Temperature (see reverse side)

Samples Collected for (in order of collection):

1. VOCs (Method 524.2) X
2. Semi-VOCs (Method 8270C) X
3. Organochlorine Pesticides (Method 8081A) X
4. Mn, Na (Method 200.7) X
5. SO_4/Cl (Method 300.0) X
6. Gross Alpha/Beta X

Laboratory: HS Sine

TIME	ELAPSED TIME	TEMP	CONDUCT	PH	APPEARANCE
		± 1° C	± 10%	± 0.3 Units	
8:46	Start				
8:56	:10	22.9	140	7.13	Medium Rust
~~8:31~~ 9:01	:15	23.2	160	7.21	Dark Rust
~~8:36~~ 9:06	:20	23.4	160	7.35	Dark Rust
~~8:41~~ 9:11	:25	23.6	170	7.38	DARK RUST
~~8:46~~ 9:16	:30	22.8	170	7.40	MED RUST

Remarks: **Well Stabilized: Y X N__ If the three characteristics do not stabilize after 40 minutes the well will be sampled.**

~~8:46~~ 8:46 10 Gal / 36 sec 16.66 GM

~~8:21~~ 8:56 10 Gal / 36 Sec 16.66 GM

~~8:36~~ 9:06 10 Gal / 36 Sec 16.66 GM

~~8:46~~ 9:16

Attachment 6 – Laboratory Reports for October 2012 Groundwater Samples (CD only)

November 30, 2012

Jeff Christensen
University of Arizona- Risk Management Services
PO Box 210300, RM A414
Tucson, AZ 85721

TEL (520) 621-5861
FAX (520) 621-3706

Work Order No.: 12J0581
Order Name: MW 1

RE: Page Ranch

Dear Jeff Christensen,

Turner Laboratories, Inc. received 2 sample(s) on 10/17/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Servic
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

Order: MW 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12J0581-01	MW #1	Ground Water	10/17/2012 0916
12J0581-02	Trip Blank	Trip Blank	10/17/2012 0000

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

Case Narrative

The naphthalene detection in sample 12J0581-02 is likely a contamination. The sample is a trip blank. There is insufficient sample volume available for re-analysis.

The naphthalene recovery in the closing CCV was below detection limits. Since sample 12J0585-02 is a trip blank. There is insufficient sample volume available for re-analysis.

L1	The associated LCS/LCSD recovery was above laboratory acceptance limits.
N1	See case narrative.
R6	LCS/LCSD RPD exceeded the method acceptance limit. Recovery met the acceptance criteria.
S4	Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
S6	Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0581
Lab Sample ID: 12J0581-01

Client Sample ID: MW #1
Collection Date/Time: 10/17/2012 0916
Matrix: Ground Water
Order Name: MW 1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
ICP Total Metals-E200.7								
Manganese	0.13	0.020		mg/L	1	10/22/2012 0730	10/22/2012 1911	RAD
Sodium	30	5.0		mg/L	1	10/22/2012 0730	10/29/2012 1921	RAD
Anions by Ion Chromatography-E300								
Chloride	6.7	1.0		mg/L	1	10/18/2012 1000	10/18/2012 1331	EW
Sulfate	ND	5.0		mg/L	1	10/18/2012 1000	10/18/2012 1331	EW
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0581
Lab Sample ID: 12J0581-01

Client Sample ID: MW #1
Collection Date/Time: 10/17/2012 0916
Matrix: Ground Water
Order Name: MW 1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Naphthalene	ND	0.00050		mg/L	1	10/31/2012 1020	10/31/2012 1401	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/30/2012 2102	KP
Surr: 1,2-Dichlorobenzene-d4	*88*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1401*	*KP*
Surr: 1,2-Dichlorobenzene-d4	*93*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2102*	*KP*
Surr: 4-Bromofluorobenzene	*96*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1401*	*KP*
Surr: 4-Bromofluorobenzene	*98*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2102*	*KP*

Organochlorine Pesticides-SW8081A

4,4´-DDD	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
4,4´-DDE	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
4,4´-DDT	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Aldrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
alpha-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
alpha-Chlordane	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
beta-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
delta-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Dieldrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Endosulfan I	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Endosulfan II	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0581
Lab Sample ID: 12J0581-01

Client Sample ID: MW #1
Collection Date/Time: 10/17/2012 0916
Matrix: Ground Water
Order Name: MW 1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Endosulfan sulfate	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Endrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Endrin aldehyde	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Endrin ketone	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
gamma-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
gamma-Chlordane	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Heptachlor	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Heptachlor epoxide	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Methoxychlor	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Toxaphene	ND	1.0		ug/L	1	10/18/2012 1550	10/24/2012 1752	MD
Surr: Decachlorobiphenyl	*76*	*51.1-138.5*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1752*	*MD*
Surr: Tetrachloro-m-xylene	*64*	*39.1-120*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1752*	*MD*
Semivolatile Organic Compounds-SW8270C								
1,2,4-Trichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
1,2-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
1,3-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
1,4-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2,4,5-Trichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2,4,6-Trichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2,4-Dichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2,4-Dimethylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2,4-Dinitrophenol	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2,4-Dinitrotoluene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2,6-Dinitrotoluene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2-Chloronaphthalene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2-Chlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2-Methylnaphthalene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2-Methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2-Nitroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
2-Nitrophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
3,3´-Dichlorobenzidine	ND	20	V1	ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
3-Nitroaniline	ND	20	V1	ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
4,6-Dinitro-2-methylphenol	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
4-Bromophenyl phenyl ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
4-Chloro-3-methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
4-Chloroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
4-Chlorophenyl phenyl ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
4-Methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
4-Nitroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
4-Nitrophenol	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Acenaphthene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0581
Lab Sample ID: 12J0581-01

Client Sample ID: MW #1
Collection Date/Time: 10/17/2012 0916
Matrix: Ground Water
Order Name: MW 1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Acenaphthylene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Aniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Benzo[a]anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Benzo[a]pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Benzo[b,k]fluoranthene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Benzo[g,h,i]perylene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Benzoic acid	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Benzyl alcohol	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Bis(2-chloroethoxy)methane	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Bis(2-chloroethyl)ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Bis(2-chloroisopropyl)ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Bis(2-ethylhexyl)phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Butyl benzyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Chrysene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Dibenz[a,h]anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Dibenzofuran	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Diethyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Dimethyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Di-n-butyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Di-n-octyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Fluoranthene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Fluorene	ND	5.0	V1	ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Hexachlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Hexachlorobutadiene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Hexachlorocyclopentadiene	ND	9.9	V1	ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Hexachloroethane	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Indeno[1,2,3-cd]pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Isophorone	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Naphthalene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Nitrobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
N-Nitrosodimethylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
N-Nitrosodiphenylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
N-Nitrosodipropylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Pentachlorophenol	ND	30		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Phenanthrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Phenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1829	MD
Surr: 2,4,6-Tribromophenol	*81*	*47.48-81.05*	*S4*	*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1829*	*MD*
Surr: 2-Fluorobiphenyl	*59*	*38.2-73.43*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1829*	*MD*
Surr: 2-Fluorophenol	*29*	*0-78.37*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1829*	*MD*
Surr: 4-Terphenyl-d14	*72*	*39.29-86.74*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1829*	*MD*

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	MW #1
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0916
Work Order:	12J0581	**Matrix:**	Ground Water
Lab Sample ID:	12J0581-01	**Order Name:**	MW 1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Surr: Nitrobenzene-d5	*44*	*34.79-78.71*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1829*	*MD*
Surr: Phenol-d6	*39*	*1.69-37.11*	*S4*	*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1829*	*MD*

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	Trip Blank
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0000
Work Order:	12J0581	**Matrix:**	Trip Blank
Lab Sample ID:	12J0581-02	**Order Name:**	MW 1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	Trip Blank
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0000
Work Order:	12J0581	**Matrix:**	Trip Blank
Lab Sample ID:	12J0581-02	**Order Name:**	MW 1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Naphthalene	0.00096	0.00050	N1	mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/30/2012 2031	KP
Surr: 1,2-Dichlorobenzene-d4	*95*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2031*	*KP*
Surr: 4-Bromofluorobenzene	*100*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2031*	*KP*

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210234 - E200.7										
Blank (1210234-BLK1)				Prepared & Analyzed: 10/22/2012						
Manganese	ND	0.020	mg/L							
Sodium	ND	5.0	mg/L							
LCS (1210234-BS1)				Prepared & Analyzed: 10/22/2012						
Manganese	0.51	0.020	mg/L	0.5000		102	85-115			
Sodium	10	5.0	mg/L	10.00		102	85-115			
LCS Dup (1210234-BSD1)				Prepared & Analyzed: 10/22/2012						
Manganese	0.51	0.020	mg/L	0.5000		102	85-115	0.05	20	
Sodium	10	5.0	mg/L	10.00		103	85-115	0.9	20	
Matrix Spike (1210234-MS1)		**Source: 12J0542-01**		Prepared & Analyzed: 10/22/2012						
Manganese	0.75	0.020	mg/L	0.5000	0.24	101	70-130			
Matrix Spike (1210234-MS2)		**Source: 12J0596-01**		Prepared & Analyzed: 10/22/2012						
Manganese	0.57	0.020	mg/L	0.5000	0.086	97	70-130			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Blank (1210206-BLK1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDD	ND	0.10	ug/L							
4,4´-DDE	ND	0.10	ug/L							
4,4´-DDT	ND	0.10	ug/L							
Aldrin	ND	0.10	ug/L							
alpha-BHC	ND	0.10	ug/L							
alpha-Chlordane	ND	0.10	ug/L							
beta-BHC	ND	0.10	ug/L							
delta-BHC	ND	0.10	ug/L							
Dieldrin	ND	0.10	ug/L							
Endosulfan I	ND	0.10	ug/L							
Endosulfan II	ND	0.10	ug/L							
Endosulfan sulfate	ND	0.10	ug/L							
Endrin	ND	0.10	ug/L							
Endrin aldehyde	ND	0.10	ug/L							
Endrin ketone	ND	0.10	ug/L							
gamma-BHC	ND	0.10	ug/L							
gamma-Chlordane	ND	0.10	ug/L							
Heptachlor	ND	0.10	ug/L							
Heptachlor epoxide	ND	0.10	ug/L							
Methoxychlor	ND	0.10	ug/L							
Toxaphene	ND	1.0	ug/L							
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			
Surrogate: Tetrachloro-m-xylene	*0.650*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS (1210206-BS1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.97	0.10	ug/L	1.000		97	57-116.5			
Aldrin	0.43	0.10	ug/L	0.5000		85	48.4-113.2			
Dieldrin	0.82	0.10	ug/L	1.000		82	53.2-117.5			
Endrin	0.91	0.10	ug/L	1.000		91	49.2-123.7			
gamma-BHC	0.43	0.10	ug/L	0.5000		86	58.9-127.4			
Heptachlor	0.42	0.10	ug/L	0.5000		83	48.1-120			
Surrogate: Decachlorobiphenyl	*0.775*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.652*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS Dup (1210206-BSD1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.96	0.10	ug/L	1.000		96	57-116.5	2	30	
Aldrin	0.42	0.10	ug/L	0.5000		84	48.4-113.2	1	30	
Dieldrin	0.80	0.10	ug/L	1.000		80	53.2-117.5	2	30	
Endrin	0.89	0.10	ug/L	1.000		89	49.2-123.7	2	30	
gamma-BHC	0.41	0.10	ug/L	0.5000		83	58.9-127.4	4	30	
Heptachlor	0.41	0.10	ug/L	0.5000		82	48.1-120	0.9	30	
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.670*		*ug/L*	*1.000*		*67*	*53.3-102.2*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Matrix Spike (1210206-MS1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.95	0.099	ug/L	0.9921	ND	96	16.5-164.5			
Aldrin	0.42	0.099	ug/L	0.4960	ND	85	20.7-143.6			
Dieldrin	0.80	0.099	ug/L	0.9921	ND	81	53.5-127.4			
Endrin	0.86	0.099	ug/L	0.9921	ND	87	52.9-133.2			
gamma-BHC	0.41	0.099	ug/L	0.4960	ND	82	51.9-134.6			
Heptachlor	0.41	0.099	ug/L	0.4960	ND	83	32.7-141.3			
Surrogate: Decachlorobiphenyl	*0.757*		*ug/L*	*0.9921*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.666*		*ug/L*	*0.9921*		*67*	*39.1-120*			
Matrix Spike Dup (1210206-MSD1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.93	0.098	ug/L	0.9814	ND	95	16.5-164.5	2	30	
Aldrin	0.41	0.098	ug/L	0.4907	ND	83	20.7-143.6	3	30	
Dieldrin	0.78	0.098	ug/L	0.9814	ND	80	53.5-127.4	2	30	
Endrin	0.87	0.098	ug/L	0.9814	ND	89	52.9-133.2	0.9	30	
gamma-BHC	0.40	0.098	ug/L	0.4907	ND	82	51.9-134.6	1	30	
Heptachlor	0.40	0.098	ug/L	0.4907	ND	82	32.7-141.3	3	30	
Surrogate: Decachlorobiphenyl	*0.742*		*ug/L*	*0.9814*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.633*		*ug/L*	*0.9814*		*65*	*39.1-120*			
Batch 1210225 - SW8270C										

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Blank (1210225-BLK1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	ND	10	ug/L							
1,2-Dichlorobenzene	ND	10	ug/L							
1,3-Dichlorobenzene	ND	10	ug/L							
1,4-Dichlorobenzene	ND	10	ug/L							
2,4,5-Trichlorophenol	ND	10	ug/L							
2,4,6-Trichlorophenol	ND	10	ug/L							
2,4-Dichlorophenol	ND	10	ug/L							
2,4-Dimethylphenol	ND	10	ug/L							
2,4-Dinitrophenol	ND	50	ug/L							
2,4-Dinitrotoluene	ND	10	ug/L							
2,6-Dinitrotoluene	ND	10	ug/L							
2-Chloronaphthalene	ND	10	ug/L							
2-Chlorophenol	ND	10	ug/L							
2-Methylnaphthalene	ND	5.0	ug/L							
2-Methylphenol	ND	10	ug/L							
2-Nitroaniline	ND	20	ug/L							
2-Nitrophenol	ND	10	ug/L							
3,3´-Dichlorobenzidine	ND	20	ug/L							
3-Nitroaniline	ND	20	ug/L							
4,6-Dinitro-2-methylphenol	ND	20	ug/L							
4-Bromophenyl phenyl ether	ND	10	ug/L							
4-Chloro-3-methylphenol	ND	10	ug/L							
4-Chloroaniline	ND	20	ug/L							
4-Chlorophenyl phenyl ether	ND	10	ug/L							
4-Methylphenol	ND	10	ug/L							
4-Nitroaniline	ND	20	ug/L							
4-Nitrophenol	ND	50	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Aniline	ND	20	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo[a]anthracene	ND	5.0	ug/L							
Benzo[a]pyrene	ND	5.0	ug/L							
Benzo[b,k]fluoranthene	ND	10	ug/L							
Benzo[g,h,i]perylene	ND	5.0	ug/L							
Benzoic acid	ND	50	ug/L							
Benzyl alcohol	ND	5.0	ug/L							
Bis(2-chloroethoxy)methane	ND	10	ug/L							
Bis(2-chloroethyl)ether	ND	10	ug/L							
Bis(2-chloroisopropyl)ether	ND	10	ug/L							
Bis(2-ethylhexyl)phthalate	ND	10	ug/L							
Butyl benzyl phthalate	ND	10	ug/L							
Chrysene	ND	5.0	ug/L							
Dibenz[a,h]anthracene	ND	5.0	ug/L							
Dibenzofuran	ND	5.0	ug/L							
Diethyl phthalate	ND	10	ug/L							
Dimethyl phthalate	ND	10	ug/L							
Di-n-butyl phthalate	ND	10	ug/L							

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Blank (1210225-BLK1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
Di-n-octyl phthalate	ND	10	ug/L							
Fluoranthene	ND	5.0	ug/L							
Fluorene	ND	5.0	ug/L							
Hexachlorobenzene	ND	10	ug/L							
Hexachlorobutadiene	ND	10	ug/L							
Hexachlorocyclopentadiene	ND	10	ug/L							
Hexachloroethane	ND	10	ug/L							
Indeno[1,2,3-cd]pyrene	ND	5.0	ug/L							
Isophorone	ND	10	ug/L							
Naphthalene	ND	5.0	ug/L							
Nitrobenzene	ND	10	ug/L							
N-Nitrosodimethylamine	ND	10	ug/L							
N-Nitrosodiphenylamine	ND	10	ug/L							
N-Nitrosodipropylamine	ND	10	ug/L							
Pentachlorophenol	ND	30	ug/L							
Phenanthrene	ND	5.0	ug/L							
Phenol	ND	10	ug/L							
Pyrene	ND	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*85.9*		*ug/L*	*100.0*		*86*	*48.18-103.25*			*S4*
Surrogate: 2-Fluorobiphenyl	*68.6*		*ug/L*	*100.0*		*69*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*43.0*		*ug/L*	*100.0*		*43*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*63.6*		*ug/L*	*100.0*		*64*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*65.9*		*ug/L*	*100.0*		*66*	*23.73-103.28*			
Surrogate: Phenol-d6	*44.4*		*ug/L*	*100.0*		*44*	*17.76-99.38*			
LCS (1210225-BS1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	30	10	ug/L	50.00		60	44.61-96.97			
1,4-Dichlorobenzene	23	10	ug/L	50.00		46	34.76-84.41			
2,4-Dinitrotoluene	29	10	ug/L	50.00		57	53.41-93.7			
2-Chlorophenol	54	10	ug/L	100.0		54	24.48-90.36			
4-Chloro-3-methylphenol	58	10	ug/L	100.0		58	35.71-98.42			
4-Nitrophenol	52	50	ug/L	100.0		52	29.09-97.75			
Acenaphthene	28	5.0	ug/L	50.00		56	45.55-93.72			
N-Nitrosodipropylamine	31	10	ug/L	50.00		62	36.51-113.8			
Pentachlorophenol	73	30	ug/L	100.0		73	56.81-93.77			
Phenol	33	10	ug/L	100.0		33	25.83-92.79			
Pyrene	31	5.0	ug/L	50.00		63	46.41-100.1			
Surrogate: 2,4,6-Tribromophenol	*78.2*		*ug/L*	*100.0*		*78*	*50.03-106.09*			
Surrogate: 2-Fluorobiphenyl	*56.6*		*ug/L*	*100.0*		*57*	*48.56-92.49*			
Surrogate: 2-Fluorophenol	*32.4*		*ug/L*	*100.0*		*32*	*0-75.67*			
Surrogate: 4-Terphenyl-d14	*54.8*		*ug/L*	*100.0*		*55*	*46-86.35*			
Surrogate: Nitrobenzene-d5	*57.0*		*ug/L*	*100.0*		*57*	*39.5-94.5*			
Surrogate: Phenol-d6	*30.3*		*ug/L*	*100.0*		*30*	*32.72-92.61*			*S6*

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
LCS Dup (1210225-BSD1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	39	10	ug/L	50.00		77	44.61-96.97	25	30	L1
1,4-Dichlorobenzene	30	10	ug/L	50.00		60	34.76-84.41	27	30	
2,4-Dinitrotoluene	36	10	ug/L	50.00		71	53.41-93.7	22	30	
2-Chlorophenol	65	10	ug/L	100.0		65	24.48-90.36	19	30	
4-Chloro-3-methylphenol	68	10	ug/L	100.0		68	35.71-98.42	16	30	
4-Nitrophenol	64	50	ug/L	100.0		64	29.09-97.75	22	30	
Acenaphthene	35	5.0	ug/L	50.00		69	45.55-93.72	20	30	
N-Nitrosodipropylamine	38	10	ug/L	50.00		77	36.51-113.8	22	30	
Pentachlorophenol	84	30	ug/L	100.0		84	56.81-93.77	15	30	L1
Phenol	38	10	ug/L	100.0		38	25.83-92.79	16	30	
Pyrene	36	5.0	ug/L	50.00		71	46.41-100.1	13	30	
Surrogate: 2,4,6-Tribromophenol	*97.7*		*ug/L*	*100.0*		*98*	*50.03-106.09*			*S4*
Surrogate: 2-Fluorobiphenyl	*67.7*		*ug/L*	*100.0*		*68*	*48.56-92.49*			
Surrogate: 2-Fluorophenol	*37.9*		*ug/L*	*100.0*		*38*	*17.64-75.67*			
Surrogate: 4-Terphenyl-d14	*66.5*		*ug/L*	*100.0*		*67*	*46-86.35*			
Surrogate: Nitrobenzene-d5	*70.2*		*ug/L*	*100.0*		*70*	*39.5-94.5*			
Surrogate: Phenol-d6	*36.6*		*ug/L*	*100.0*		*37*	*32.72-92.61*			
Matrix Spike (1210225-MS1)		**Source: 12J0584-01**		Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	39	10	ug/L	49.90	ND	78	26.12-109.76			
1,4-Dichlorobenzene	28	10	ug/L	49.90	ND	57	23.67-90			
2,4-Dinitrotoluene	33	10	ug/L	49.90	ND	67	42.38-99.06			
2-Chlorophenol	65	10	ug/L	99.80	ND	66	13.58-96.61			
4-Chloro-3-methylphenol	69	10	ug/L	99.80	ND	70	34.59-92.25			
4-Nitrophenol	55	50	ug/L	99.80	ND	55	20.75-109.23			
Acenaphthene	33	5.0	ug/L	49.90	ND	67	24.45-105.5			
N-Nitrosodipropylamine	37	10	ug/L	49.90	ND	75	14.35-130.03			
Pentachlorophenol	72	30	ug/L	99.80	ND	73	43.33-101.64			
Phenol	51	10	ug/L	99.80	ND	51	22.94-95			
Pyrene	34	5.0	ug/L	49.90	ND	69	25.28-106.05			
Surrogate: 2,4,6-Tribromophenol	*90.9*		*ug/L*	*99.80*		*91*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*65.8*		*ug/L*	*99.80*		*66*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*44.2*		*ug/L*	*99.80*		*44*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*63.1*		*ug/L*	*99.80*		*63*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*73.0*		*ug/L*	*99.80*		*73*	*23.73-103.28*			
Surrogate: Phenol-d6	*51.0*		*ug/L*	*99.80*		*51*	*17.76-99.38*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Matrix Spike Dup (1210225-MSD1)		**Source: 12J0584-01**		Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	38	10	ug/L	50.20	ND	75	26.12-109.76	3	30	
1,4-Dichlorobenzene	29	10	ug/L	50.20	ND	57	23.67-90	1	30	
2,4-Dinitrotoluene	34	10	ug/L	50.20	ND	68	42.38-99.06	2	30	
2-Chlorophenol	67	10	ug/L	100.4	ND	67	13.58-96.61	2	30	
4-Chloro-3-methylphenol	70	10	ug/L	100.4	ND	70	34.59-92.25	1	30	
4-Nitrophenol	63	50	ug/L	100.4	ND	63	20.75-109.23	15	30	
Acenaphthene	34	5.0	ug/L	50.20	ND	68	24.45-105.5	3	30	
N-Nitrosodipropylamine	38	10	ug/L	50.20	ND	76	14.35-130.03	3	30	
Pentachlorophenol	86	30	ug/L	100.4	ND	86	43.33-101.64	17	30	
Phenol	51	10	ug/L	100.4	ND	50	22.94-95	0.2	30	
Pyrene	36	5.0	ug/L	50.20	ND	73	25.28-106.05	6	30	
Surrogate: 2,4,6-Tribromophenol	*97.8*		*ug/L*	*100.4*		*97*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*69.9*		*ug/L*	*100.4*		*70*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*48.9*		*ug/L*	*100.4*		*49*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*66.6*		*ug/L*	*100.4*		*66*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*72.6*		*ug/L*	*100.4*		*72*	*23.73-103.28*			
Surrogate: Phenol-d6	*50.5*		*ug/L*	*100.4*		*50*	*17.76-99.38*			

Client: University of Arizona- Risk Management Services
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,1-Trichloroethane	ND	0.00050	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,2-Trichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethene	ND	0.00050	mg/L							
1,1-Dichloropropene	ND	0.00050	mg/L							
1,2,3-Trichlorobenzene	ND	0.00050	mg/L							
1,2,3-Trichloropropane	ND	0.00050	mg/L							
1,2,4-Trichlorobenzene	ND	0.00050	mg/L							
1,2,4-Trimethylbenzene	ND	0.00050	mg/L							
1,2-Dichlorobenzene	ND	0.00050	mg/L							
1,2-Dichloroethane	ND	0.00050	mg/L							
1,2-Dichloropropane	ND	0.00050	mg/L							
1,3,5-Trimethylbenzene	ND	0.00050	mg/L							
1,3-Dichlorobenzene	ND	0.00050	mg/L							
1,3-Dichloropropane	ND	0.00050	mg/L							
1,4-Dichlorobenzene	ND	0.00050	mg/L							
2,2-Dichloropropane	ND	0.00050	mg/L							
2-Chlorotoluene	ND	0.00050	mg/L							
4-Chlorotoluene	ND	0.00050	mg/L							
4-Isopropyltoluene	ND	0.00050	mg/L							
Benzene	ND	0.00050	mg/L							
Bromobenzene	ND	0.00050	mg/L							
Bromochloromethane	ND	0.00050	mg/L							
Bromodichloromethane	ND	0.00050	mg/L							
Bromoform	ND	0.00050	mg/L							
Bromomethane	ND	0.00050	mg/L							
Carbon tetrachloride	ND	0.00050	mg/L							
Chlorobenzene	ND	0.00050	mg/L							
Chloroethane	ND	0.00050	mg/L							
Chloroform	ND	0.00050	mg/L							
Chloromethane	ND	0.00050	mg/L							
cis-1,2-Dichloroethene	ND	0.00050	mg/L							
cis-1,3-Dichloropropene	ND	0.00050	mg/L							
Dibromochloromethane	ND	0.00050	mg/L							
Dibromomethane	ND	0.00050	mg/L							
Dichlorodifluoromethane	ND	0.00050	mg/L							
Ethylbenzene	ND	0.00050	mg/L							
Hexachlorobutadiene	ND	0.00050	mg/L							
Isopropylbenzene	ND	0.00050	mg/L							
Methylene chloride	ND	0.00050	mg/L							
Naphthalene	ND	0.00050	mg/L							
n-Butylbenzene	ND	0.00050	mg/L							
n-Propylbenzene	ND	0.00050	mg/L							
sec-Butylbenzene	ND	0.00050	mg/L							
Styrene	ND	0.00050	mg/L							
tert-Butylbenzene	ND	0.00050	mg/L							

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
Tetrachloroethene	ND	0.00050	mg/L							
Toluene	ND	0.00050	mg/L							
trans-1,2-Dichloroethene	ND	0.00050	mg/L							
trans-1,3-Dichloropropene	ND	0.00050	mg/L							
Trichloroethene	ND	0.00050	mg/L							
Trichlorofluoromethane	ND	0.00050	mg/L							
TTHMs	ND	0.00050	mg/L							
Vinyl chloride	ND	0.00050	mg/L							
Xylenes, Total	ND	0.0015	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.95*		*ug/L*	*1.000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.96*		*ug/L*	*1.000*		*96*	*70-130*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,1-Trichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,1,2-Trichloroethane	0.010	0.00050	mg/L	0.01000		105	70-130			
1,1-Dichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130			
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130			
1,3,5-Trimethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,4-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		102	70-130			
2-Chlorotoluene	0.010	0.00050	mg/L	0.01000		104	70-130			
4-Chlorotoluene	0.010	0.00050	mg/L	0.01000		105	70-130			
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		105	70-130			
Benzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Bromobenzene	0.011	0.00050	mg/L	0.01000		106	70-130			
Bromochloromethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Bromodichloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Bromoform	0.011	0.00050	mg/L	0.01000		107	70-130			
Bromomethane	0.012	0.00050	mg/L	0.01000		122	70-130			
Carbon tetrachloride	0.010	0.00050	mg/L	0.01000		105	70-130			
Chlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Chloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloroform	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloromethane	0.010	0.00050	mg/L	0.01000		100	70-130			
cis-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		103	70-130			
cis-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromochloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromomethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Dichlorodifluoromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Ethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		108	70-130			
Isopropylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		106	0-200			
Methylene chloride	0.010	0.00050	mg/L	0.01000		102	70-130			
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130			R6
n-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
n-Propylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
sec-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Styrene	0.011	0.00050	mg/L	0.01000		106	70-130			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Toluene	0.010	0.00050	mg/L	0.01000		104	70-130			
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		102	70-130			
trans-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Trichloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130			
TTHMs	0.042	0.00050	mg/L				70-130			
Vinyl chloride	0.010	0.00050	mg/L	0.01000		104	70-130			
Xylenes, Total	0.031	0.0015	mg/L	0.03000		105	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		107	70-130	4	20	
1,1,1-Trichloroethane	0.011	0.00050	mg/L	0.01000		105	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		110	70-130	4	20	
1,1,2-Trichloroethane	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,1-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,1-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		108	70-130	2	20	
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		111	70-130	6	20	
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130	0.8	20	
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
1,2-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,2-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	1	20	
1,3,5-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,3-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,4-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	5	20	
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		103	70-130	0.9	20	
2-Chlorotoluene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
4-Chlorotoluene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Benzene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Bromobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Bromochloromethane	0.011	0.00050	mg/L	0.01000		111	70-130	5	20	
Bromodichloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Bromoform	0.011	0.00050	mg/L	0.01000		108	70-130	0.9	20	
Bromomethane	0.012	0.00050	mg/L	0.01000		118	70-130	4	20	
Carbon tetrachloride	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Chlorobenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Chloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
Chloroform	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Chloromethane	0.010	0.00050	mg/L	0.01000		103	70-130	3	20	
cis-1,2-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
cis-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	1	20	
Dibromochloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Dibromomethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Dichlorodifluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Ethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		111	70-130	2	20	
Isopropylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		108	0-200	1	200	
Methylene chloride	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
Naphthalene	0.012	0.00050	mg/L	0.01000		120	70-130	22	20	R6
n-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
n-Propylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
sec-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Styrene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Toluene	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
trans-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
Trichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		110	70-130	3	20	
TTHMs	0.043	0.00050	mg/L				70-130	3	20	
Vinyl chloride	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Xylenes, Total	0.033	0.0015	mg/L	0.03000		108	70-130	3	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.1*		*ug/L*	*1.000*		*106*	*70-130*			
Batch 1210328 - EPA 524.2										
Blank (1210328-BLK1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	ND	0.00050	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.90*		*ug/L*	*1.000*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.94*		*ug/L*	*1.000*		*94*	*70-130*			
LCS (1210328-BS1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0088	0.00050	mg/L	0.01000		88	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
LCS Dup (1210328-BSD1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130	9	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*100*	*70-130*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0581
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210190 - E300										
Blank (1210190-BLK1)				Prepared & Analyzed: 10/18/2012						
Chloride	ND	1.0	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1210190-BS1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		96	90-110			
Sulfate	13	5.0	mg/L	12.50		100	90-110			
LCS Dup (1210190-BSD1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		97	90-110	0.08	10	
Sulfate	12	5.0	mg/L	12.50		100	90-110	0.5	10	
Matrix Spike (1210190-MS2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120			
Sulfate	14	5.0	mg/L	12.50	2.2	95	80-120			
Matrix Spike Dup (1210190-MSD2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120	0.04	10	
Sulfate	14	5.0	mg/L	12.50	2.2	94	80-120	0.5	10	

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 12J0581 DATE 10/17/12 PAGE 1 OF 1

PROJECT NAME Page Ranch #
CONTACT NAME Lloyd Wundrock
COMPANY NAME UA Risk Management
ADDRESS PO Box 210300, Tucson, AZ 85721
PHONE 621-1590 FAX 621-3706
SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Base Neutrals ☐ Acids ☐ 625/8270	Volatile Organics 624/624.2/8260	THMs ☐ HAA5 ☐	Pesticides ☐ PCB's ☐ 8081 8082	NO_2 ☐ NO_3 ☐ TKN ☐	Oil and Grease Grav. 1664A ☑	VOA ☐ TCLP Analysis Semi-VOA ☐ Pest. ☐	TCLP ☐ Dissolved ☐ Metals Total ☐ RCRA8 ☐	Total ☐ Amen. ☐ Cyanide WAD ☐	SDWA-INORGANICS PRIMARY ☐ SECONDARY ☐	MPN ☐ Coliform Colilert ☐	pH ☐ Cr_6 ☐ Cl_2 ☐	COD ☐ TSS ☐ BOD ☐	200.7 Metals	300.0 Anions			
MW #1	10/17/12	0916		GW	12	X	X		X											X	X		

1. RELINQUISHED BY: Signature; Printed Name: LM WUNDROCK; Firm: UofA; Date/Time: 10-17-2012/1300 hcs

2. RECEIVED BY: Signature; Printed Name: Jeffrey G. Chase; Firm: UofA; Date/Time: 10/17/12 1500

3. RELINQUISHED BY: Signature; Printed Name: Jeffrey G. Chase; Firm: UofA; Date/Time: 10/17/12 2215

4. RECEIVED BY: Signature; Printed Name: Steven Cuch; Firm: TURNER LABORATORIES, INC.; Date/Time: 10-17-12 1425

TURNAROUND REQUIREMENTS:
- ☑ Standard (approx. 10 days)*
- ☐ Next Day ☐ 2 Day ☐ 5 Day*
- ☐ Email Preliminary Results To:

* Working Days

REPORT REQUIREMENTS:
- ☐ I. Routine Report
- ☐ II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
- ☑ III. Date Validation Report (Includes All Raw Data) Add 10% to invoice

INVOICE INFORMATION:
Account ☐ Y ☐ N
P.O. #
Bill to:

SAMPLE RECEIPT:
Total Containers 12
Temperature 3.1
☐ Wet Ice ☐ Blue Ice

* LEGEND
- DW = DRINKING WATER
- GW = GROUNDWATER
- SD = SOLID
- SG = SLUDGE
- SL = SOIL
- ST = STORMWATER
- WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:
- Compliance Analysis: ☐ Yes ☐ No
- ADEQ Forms: ☐ Yes ☐ No
- Mail ADEQ Forms: ☐ Yes ☐ No
- Custody Seals ☐
- Container Intact ☐
- COC / Labels Agree ☐
- Preservation Confirmation ☑
- Appropriate Head Space ☑
- Received Within Hold Time ☑

Metals-Mn, Na Anions-Cl, SO4 QA/QC Level III Package
Hard Copy Report/Writable CD Send Report to ADEQ electronically

November 30, 2012

Jeff Christensen
University of Arizona- Risk Management Services
PO Box 210300, RM A414
Tucson, AZ 85721

TEL (520) 621-5861
FAX (520) 621-3706

Work Order No.: 12J0582
Order Name: MW 2

RE: Page Ranch

Dear Jeff Christensen,

Turner Laboratories, Inc. received 2 sample(s) on 10/17/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Servic
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

Order: MW 2

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12J0582-01	MW #2	Ground Water	10/17/2012 1115
12J0582-02	Trip Blank	Trip Blank	10/17/2012 0000

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

Case Narrative

The naphthalene recovery in the closing CCV was below detection limits. Since sample 12J0582-02 is a trip blank. There is insufficient sample volume available for re-analysis.

N1	See case narrative.
R6	LCS/LCSD RPD exceeded the method acceptance limit. Recovery met the acceptance criteria.
S4	Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0582
Lab Sample ID: 12J0582-01

Client Sample ID: MW #2
Collection Date/Time: 10/17/2012 1115
Matrix: Ground Water
Order Name: MW 2

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
ICP Total Metals-E200.7								
Manganese	0.10	0.020		mg/L	1	10/22/2012 0730	10/22/2012 1928	RAD
Sodium	31	5.0		mg/L	1	10/22/2012 0730	10/29/2012 1933	RAD
Anions by Ion Chromatography-E300								
Chloride	5.8	1.0		mg/L	1	10/18/2012 1000	10/18/2012 1349	EW
Sulfate	ND	5.0		mg/L	1	10/18/2012 1000	10/18/2012 1349	EW
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0582
Lab Sample ID: 12J0582-01

Client Sample ID: MW #2
Collection Date/Time: 10/17/2012 1115
Matrix: Ground Water
Order Name: MW 2

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Naphthalene	ND	0.00050		mg/L	1	10/31/2012 1020	10/31/2012 1431	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/30/2012 2132	KP
Surr: 1,2-Dichlorobenzene-d4	*94*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1431*	*KP*
Surr: 1,2-Dichlorobenzene-d4	*91*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2132*	*KP*
Surr: 4-Bromofluorobenzene	*92*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1431*	*KP*
Surr: 4-Bromofluorobenzene	*96*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2132*	*KP*
Organochlorine Pesticides-SW8081A								
4,4´-DDD	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
4,4´-DDE	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
4,4´-DDT	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Aldrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
alpha-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
alpha-Chlordane	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
beta-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
delta-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Dieldrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Endosulfan I	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Endosulfan II	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0582
Lab Sample ID: 12J0582-01

Client Sample ID: MW #2
Collection Date/Time: 10/17/2012 1115
Matrix: Ground Water
Order Name: MW 2

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Endosulfan sulfate	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Endrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Endrin aldehyde	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Endrin ketone	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
gamma-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
gamma-Chlordane	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Heptachlor	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Heptachlor epoxide	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Methoxychlor	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Toxaphene	ND	1.0		ug/L	1	10/18/2012 1550	10/24/2012 1818	MD
Surr: Decachlorobiphenyl	*70*	*51.1-138.5*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1818*	*MD*
Surr: Tetrachloro-m-xylene	*60*	*39.1-120*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1818*	*MD*
Semivolatile Organic Compounds-SW8270C								
1,2,4-Trichlorobenzene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
1,2-Dichlorobenzene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
1,3-Dichlorobenzene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
1,4-Dichlorobenzene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2,4,5-Trichlorophenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2,4,6-Trichlorophenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2,4-Dichlorophenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2,4-Dimethylphenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2,4-Dinitrophenol	ND	50		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2,4-Dinitrotoluene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2,6-Dinitrotoluene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2-Chloronaphthalene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2-Chlorophenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2-Methylnaphthalene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2-Methylphenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2-Nitroaniline	ND	20		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
2-Nitrophenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
3,3´-Dichlorobenzidine	ND	20		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
3-Nitroaniline	ND	20		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
4,6-Dinitro-2-methylphenol	ND	20		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
4-Bromophenyl phenyl ether	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
4-Chloro-3-methylphenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
4-Chloroaniline	ND	20		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
4-Chlorophenyl phenyl ether	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
4-Methylphenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
4-Nitroaniline	ND	20		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
4-Nitrophenol	ND	50		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Acenaphthene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0582
Lab Sample ID: 12J0582-01

Client Sample ID: MW #2
Collection Date/Time: 10/17/2012 1115
Matrix: Ground Water
Order Name: MW 2

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Acenaphthylene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Aniline	ND	20		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Anthracene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Benzo[a]anthracene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Benzo[a]pyrene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Benzo[b,k]fluoranthene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Benzo[g,h,i]perylene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Benzoic acid	ND	50		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Benzyl alcohol	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Bis(2-chloroethoxy)methane	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Bis(2-chloroethyl)ether	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Bis(2-chloroisopropyl)ether	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Bis(2-ethylhexyl)phthalate	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Butyl benzyl phthalate	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Chrysene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Dibenz[a,h]anthracene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Dibenzofuran	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Diethyl phthalate	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Dimethyl phthalate	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Di-n-butyl phthalate	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Di-n-octyl phthalate	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Fluoranthene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Fluorene	ND	5.0	V1	ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Hexachlorobenzene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Hexachlorobutadiene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Hexachlorocyclopentadiene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Hexachloroethane	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Indeno[1,2,3-cd]pyrene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Isophorone	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Naphthalene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Nitrobenzene	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
N-Nitrosodimethylamine	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
N-Nitrosodiphenylamine	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
N-Nitrosodipropylamine	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Pentachlorophenol	ND	30		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Phenanthrene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Phenol	ND	10		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Pyrene	ND	5.0		ug/L	1	10/23/2012 1009	11/07/2012 1412	MD
Surr: 2,4,6-Tribromophenol	*87*	*47.48-81.05*	*S4*	*%REC*	*1*	*10/23/2012 1009*	*11/07/2012 1412*	*MD*
Surr: 2-Fluorobiphenyl	*66*	*38.2-73.43*		*%REC*	*1*	*10/23/2012 1009*	*11/07/2012 1412*	*MD*
Surr: 2-Fluorophenol	*49*	*0-78.37*		*%REC*	*1*	*10/23/2012 1009*	*11/07/2012 1412*	*MD*
Surr: 4-Terphenyl-d14	*67*	*39.29-86.74*		*%REC*	*1*	*10/23/2012 1009*	*11/07/2012 1412*	*MD*

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	MW #2
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 1115
Work Order:	12J0582	**Matrix:**	Ground Water
Lab Sample ID:	12J0582-01	**Order Name:**	MW 2

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Surr: Nitrobenzene-d5	*65*	*34.79-78.71*		*%REC*	*1*	*10/23/2012 1009*	*11/07/2012 1412*	*MD*
Surr: Phenol-d6	*49*	*1.69-37.11*	*S4*	*%REC*	*1*	*10/23/2012 1009*	*11/07/2012 1412*	*MD*

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0582
Lab Sample ID: 12J0582-02

Client Sample ID: Trip Blank
Collection Date/Time: 10/17/2012 0000
Matrix: Trip Blank
Order Name: MW 2

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	Trip Blank
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0000
Work Order:	12J0582	**Matrix:**	Trip Blank
Lab Sample ID:	12J0582-02	**Order Name:**	MW 2

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Naphthalene	ND	0.00050	N1	mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/30/2012 2203	KP
Surr: 1,2-Dichlorobenzene-d4	*102*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2203*	*KP*
Surr: 4-Bromofluorobenzene	*102*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2203*	*KP*

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210234 - E200.7										
Blank (1210234-BLK1)				Prepared & Analyzed: 10/22/2012						
Manganese	ND	0.020	mg/L							
Sodium	ND	5.0	mg/L							
LCS (1210234-BS1)				Prepared & Analyzed: 10/22/2012						
Manganese	0.51	0.020	mg/L	0.5000		102	85-115			
Sodium	10	5.0	mg/L	10.00		102	85-115			
LCS Dup (1210234-BSD1)				Prepared & Analyzed: 10/22/2012						
Manganese	0.51	0.020	mg/L	0.5000		102	85-115	0.05	20	
Sodium	10	5.0	mg/L	10.00		103	85-115	0.9	20	
Matrix Spike (1210234-MS1)		**Source: 12J0542-01**		Prepared & Analyzed: 10/22/2012						
Manganese	0.75	0.020	mg/L	0.5000	0.24	101	70-130			
Matrix Spike (1210234-MS2)		**Source: 12J0596-01**		Prepared & Analyzed: 10/22/2012						
Manganese	0.57	0.020	mg/L	0.5000	0.086	97	70-130			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Blank (1210206-BLK1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDD	ND	0.10	ug/L							
4,4´-DDE	ND	0.10	ug/L							
4,4´-DDT	ND	0.10	ug/L							
Aldrin	ND	0.10	ug/L							
alpha-BHC	ND	0.10	ug/L							
alpha-Chlordane	ND	0.10	ug/L							
beta-BHC	ND	0.10	ug/L							
delta-BHC	ND	0.10	ug/L							
Dieldrin	ND	0.10	ug/L							
Endosulfan I	ND	0.10	ug/L							
Endosulfan II	ND	0.10	ug/L							
Endosulfan sulfate	ND	0.10	ug/L							
Endrin	ND	0.10	ug/L							
Endrin aldehyde	ND	0.10	ug/L							
Endrin ketone	ND	0.10	ug/L							
gamma-BHC	ND	0.10	ug/L							
gamma-Chlordane	ND	0.10	ug/L							
Heptachlor	ND	0.10	ug/L							
Heptachlor epoxide	ND	0.10	ug/L							
Methoxychlor	ND	0.10	ug/L							
Toxaphene	ND	1.0	ug/L							
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			
Surrogate: Tetrachloro-m-xylene	*0.650*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS (1210206-BS1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.97	0.10	ug/L	1.000		97	57-116.5			
Aldrin	0.43	0.10	ug/L	0.5000		85	48.4-113.2			
Dieldrin	0.82	0.10	ug/L	1.000		82	53.2-117.5			
Endrin	0.91	0.10	ug/L	1.000		91	49.2-123.7			
gamma-BHC	0.43	0.10	ug/L	0.5000		86	58.9-127.4			
Heptachlor	0.42	0.10	ug/L	0.5000		83	48.1-120			
Surrogate: Decachlorobiphenyl	*0.775*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.652*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS Dup (1210206-BSD1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.96	0.10	ug/L	1.000		96	57-116.5	2	30	
Aldrin	0.42	0.10	ug/L	0.5000		84	48.4-113.2	1	30	
Dieldrin	0.80	0.10	ug/L	1.000		80	53.2-117.5	2	30	
Endrin	0.89	0.10	ug/L	1.000		89	49.2-123.7	2	30	
gamma-BHC	0.41	0.10	ug/L	0.5000		83	58.9-127.4	4	30	
Heptachlor	0.41	0.10	ug/L	0.5000		82	48.1-120	0.9	30	
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.670*		*ug/L*	*1.000*		*67*	*53.3-102.2*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Matrix Spike (1210206-MS1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.95	0.099	ug/L	0.9921	ND	96	16.5-164.5			
Aldrin	0.42	0.099	ug/L	0.4960	ND	85	20.7-143.6			
Dieldrin	0.80	0.099	ug/L	0.9921	ND	81	53.5-127.4			
Endrin	0.86	0.099	ug/L	0.9921	ND	87	52.9-133.2			
gamma-BHC	0.41	0.099	ug/L	0.4960	ND	82	51.9-134.6			
Heptachlor	0.41	0.099	ug/L	0.4960	ND	83	32.7-141.3			
Surrogate: Decachlorobiphenyl	*0.757*		*ug/L*	*0.9921*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.666*		*ug/L*	*0.9921*		*67*	*39.1-120*			
Matrix Spike Dup (1210206-MSD1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.93	0.098	ug/L	0.9814	ND	95	16.5-164.5	2	30	
Aldrin	0.41	0.098	ug/L	0.4907	ND	83	20.7-143.6	3	30	
Dieldrin	0.78	0.098	ug/L	0.9814	ND	80	53.5-127.4	2	30	
Endrin	0.87	0.098	ug/L	0.9814	ND	89	52.9-133.2	0.9	30	
gamma-BHC	0.40	0.098	ug/L	0.4907	ND	82	51.9-134.6	1	30	
Heptachlor	0.40	0.098	ug/L	0.4907	ND	82	32.7-141.3	3	30	
Surrogate: Decachlorobiphenyl	*0.742*		*ug/L*	*0.9814*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.633*		*ug/L*	*0.9814*		*65*	*39.1-120*			
Batch 1210240 - SW8270C										

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210240 - SW8270C										
Blank (1210240-BLK1)				Prepared: 10/23/2012 Analyzed: 11/07/2012						
1,2,4-Trichlorobenzene	ND	10	ug/L							
1,2-Dichlorobenzene	ND	10	ug/L							
1,3-Dichlorobenzene	ND	10	ug/L							
1,4-Dichlorobenzene	ND	10	ug/L							
2,4,5-Trichlorophenol	ND	10	ug/L							
2,4,6-Trichlorophenol	ND	10	ug/L							
2,4-Dichlorophenol	ND	10	ug/L							
2,4-Dimethylphenol	ND	10	ug/L							
2,4-Dinitrophenol	ND	50	ug/L							
2,4-Dinitrotoluene	ND	10	ug/L							
2,6-Dinitrotoluene	ND	10	ug/L							
2-Chloronaphthalene	ND	10	ug/L							
2-Chlorophenol	ND	10	ug/L							
2-Methylnaphthalene	ND	5.0	ug/L							
2-Methylphenol	ND	10	ug/L							
2-Nitroaniline	ND	20	ug/L							
2-Nitrophenol	ND	10	ug/L							
3,3´-Dichlorobenzidine	ND	20	ug/L							
3-Nitroaniline	ND	20	ug/L							
4,6-Dinitro-2-methylphenol	ND	20	ug/L							
4-Bromophenyl phenyl ether	ND	10	ug/L							
4-Chloro-3-methylphenol	ND	10	ug/L							
4-Chloroaniline	ND	20	ug/L							
4-Chlorophenyl phenyl ether	ND	10	ug/L							
4-Methylphenol	ND	10	ug/L							
4-Nitroaniline	ND	20	ug/L							
4-Nitrophenol	ND	50	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Aniline	ND	20	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo[a]anthracene	ND	5.0	ug/L							
Benzo[a]pyrene	ND	5.0	ug/L							
Benzo[b,k]fluoranthene	ND	10	ug/L							
Benzo[g,h,i]perylene	ND	5.0	ug/L							
Benzoic acid	ND	50	ug/L							
Benzyl alcohol	ND	5.0	ug/L							
Bis(2-chloroethoxy)methane	ND	10	ug/L							
Bis(2-chloroethyl)ether	ND	10	ug/L							
Bis(2-chloroisopropyl)ether	ND	10	ug/L							
Bis(2-ethylhexyl)phthalate	ND	10	ug/L							
Butyl benzyl phthalate	ND	10	ug/L							
Chrysene	ND	5.0	ug/L							
Dibenz[a,h]anthracene	ND	5.0	ug/L							
Dibenzofuran	ND	5.0	ug/L							
Diethyl phthalate	ND	10	ug/L							
Dimethyl phthalate	ND	10	ug/L							
Di-n-butyl phthalate	ND	10	ug/L							

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Work Order: 12J0582
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210240 - SW8270C										
Blank (1210240-BLK1)				Prepared: 10/23/2012 Analyzed: 11/07/2012						
Di-n-octyl phthalate	ND	10	ug/L							
Fluoranthene	ND	5.0	ug/L							
Fluorene	ND	5.0	ug/L							
Hexachlorobenzene	ND	10	ug/L							
Hexachlorobutadiene	ND	10	ug/L							
Hexachlorocyclopentadiene	ND	10	ug/L							
Hexachloroethane	ND	10	ug/L							
Indeno[1,2,3-cd]pyrene	ND	5.0	ug/L							
Isophorone	ND	10	ug/L							
Naphthalene	ND	5.0	ug/L							
Nitrobenzene	ND	10	ug/L							
N-Nitrosodimethylamine	ND	10	ug/L							
N-Nitrosodiphenylamine	ND	10	ug/L							
N-Nitrosodipropylamine	ND	10	ug/L							
Pentachlorophenol	ND	30	ug/L							
Phenanthrene	ND	5.0	ug/L							
Phenol	ND	10	ug/L							
Pyrene	ND	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*81.7*		*ug/L*	*100.0*		*82*	*47.48-81.05*			*S4*
Surrogate: 2-Fluorobiphenyl	*68.7*		*ug/L*	*100.0*		*69*	*38.2-73.43*			
Surrogate: 2-Fluorophenol	*42.3*		*ug/L*	*100.0*		*42*	*0-78.37*			
Surrogate: 4-Terphenyl-d14	*67.8*		*ug/L*	*100.0*		*68*	*39.29-86.74*			
Surrogate: Nitrobenzene-d5	*67.0*		*ug/L*	*100.0*		*67*	*34.79-78.71*			
Surrogate: Phenol-d6	*44.3*		*ug/L*	*100.0*		*44*	*1.69-37.11*			*S4*
LCS (1210240-BS1)				Prepared: 10/23/2012 Analyzed: 11/07/2012						
1,2,4-Trichlorobenzene	32	10	ug/L	50.00		64	34.82-69.59			
1,4-Dichlorobenzene	26	10	ug/L	50.00		52	28.32-61.4			
2,4-Dinitrotoluene	29	10	ug/L	50.00		59	39.9-79.18			
2-Chlorophenol	60	10	ug/L	100.0		60	25.24-74.48			
4-Chloro-3-methylphenol	63	10	ug/L	100.0		63	40.3-77.78			
4-Nitrophenol	56	50	ug/L	100.0		56	19.31-103.56			
Acenaphthene	29	5.0	ug/L	50.00		59	41.54-75.46			
N-Nitrosodipropylamine	32	10	ug/L	50.00		65	40.18-80.63			
Pentachlorophenol	79	30	ug/L	100.0		79	40.22-81.99			
Phenol	38	10	ug/L	100.0		38	0-45.95			
Pyrene	33	5.0	ug/L	50.00		67	40.06-85.43			
Surrogate: 2,4,6-Tribromophenol	*84.4*		*ug/L*	*100.0*		*84*	*47.48-81.05*			*S4*
Surrogate: 2-Fluorobiphenyl	*60.7*		*ug/L*	*100.0*		*61*	*38.2-73.43*			
Surrogate: 2-Fluorophenol	*38.2*		*ug/L*	*100.0*		*38*	*0-78.37*			
Surrogate: 4-Terphenyl-d14	*57.5*		*ug/L*	*100.0*		*57*	*39.29-86.74*			
Surrogate: Nitrobenzene-d5	*59.7*		*ug/L*	*100.0*		*60*	*34.79-78.71*			
Surrogate: Phenol-d6	*35.0*		*ug/L*	*100.0*		*35*	*1.69-37.11*			

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Work Order: 12J0582
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210240 - SW8270C										
LCS Dup (1210240-BSD1)				Prepared: 10/23/2012 Analyzed: 11/07/2012						
1,2,4-Trichlorobenzene	27	10	ug/L	50.00		53	34.82-69.59	18	30	
1,4-Dichlorobenzene	20	10	ug/L	50.00		41	28.32-61.4	23	30	
2,4-Dinitrotoluene	28	10	ug/L	50.00		56	39.9-79.18	5	30	
2-Chlorophenol	55	10	ug/L	100.0		55	25.24-74.48	9	30	
4-Chloro-3-methylphenol	61	10	ug/L	100.0		61	40.3-77.78	4	30	
4-Nitrophenol	54	50	ug/L	100.0		54	19.31-103.56	4	30	
Acenaphthene	28	5.0	ug/L	50.00		56	41.54-75.46	5	30	
N-Nitrosodipropylamine	30	10	ug/L	50.00		61	40.18-80.63	6	30	
Pentachlorophenol	74	30	ug/L	100.0		74	40.22-81.99	6	30	
Phenol	38	10	ug/L	100.0		38	0-45.95	0.8	30	
Pyrene	30	5.0	ug/L	50.00		61	40.06-85.43	9	30	
Surrogate: 2,4,6-Tribromophenol	*86.2*		*ug/L*	*100.0*		*86*	*47.48-81.05*			*S4*
Surrogate: 2-Fluorobiphenyl	*57.5*		*ug/L*	*100.0*		*57*	*38.2-73.43*			
Surrogate: 2-Fluorophenol	*34.5*		*ug/L*	*100.0*		*34*	*0-78.37*			
Surrogate: 4-Terphenyl-d14	*52.7*		*ug/L*	*100.0*		*53*	*39.29-86.74*			
Surrogate: Nitrobenzene-d5	*51.1*		*ug/L*	*100.0*		*51*	*38.2-73.43*			
Surrogate: Phenol-d6	*35.1*		*ug/L*	*100.0*		*35*	*1.69-37.11*			
Matrix Spike (1210240-MS1)		**Source: 12J0582-01**		Prepared: 10/23/2012 Analyzed: 11/07/2012						
1,2,4-Trichlorobenzene	31	10	ug/L	49.75	ND	63	26.12-109.76			
1,4-Dichlorobenzene	25	10	ug/L	49.75	ND	49	23.67-90			
2,4-Dinitrotoluene	30	10	ug/L	49.75	ND	60	42.38-99.06			
2-Chlorophenol	61	10	ug/L	99.50	ND	61	13.58-96.61			
4-Chloro-3-methylphenol	65	10	ug/L	99.50	ND	65	34.59-92.25			
4-Nitrophenol	59	50	ug/L	99.50	ND	59	20.75-109.23			
Acenaphthene	30	5.0	ug/L	49.75	ND	60	24.45-105.5			
N-Nitrosodipropylamine	32	10	ug/L	49.75	ND	65	14.35-130.03			
Pentachlorophenol	83	30	ug/L	99.50	ND	83	43.33-101.64			
Phenol	57	10	ug/L	99.50	ND	58	22.94-95			
Pyrene	31	5.0	ug/L	49.75	ND	62	25.28-106.05			
Surrogate: 2,4,6-Tribromophenol	*87.8*		*ug/L*	*99.50*		*88*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*56.9*		*ug/L*	*99.50*		*57*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*50.7*		*ug/L*	*99.50*		*51*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*60.2*		*ug/L*	*99.50*		*61*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*59.3*		*ug/L*	*99.50*		*60*	*23.73-103.28*			
Surrogate: Phenol-d6	*56.1*		*ug/L*	*99.50*		*56*	*17.76-99.38*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210240 - SW8270C										
Matrix Spike Dup (1210240-MSD1)		**Source: 12J0582-01**		Prepared: 10/23/2012 Analyzed: 11/07/2012						
1,2,4-Trichlorobenzene	37	9.8	ug/L	48.97	ND	76	26.12-109.76	17	30	
1,4-Dichlorobenzene	29	9.8	ug/L	48.97	ND	59	23.67-90	17	30	
2,4-Dinitrotoluene	34	9.8	ug/L	48.97	ND	69	42.38-99.06	12	30	
2-Chlorophenol	66	9.8	ug/L	97.94	ND	68	13.58-96.61	9	30	
4-Chloro-3-methylphenol	73	9.8	ug/L	97.94	ND	75	34.59-92.25	12	30	
4-Nitrophenol	62	49	ug/L	97.94	ND	64	20.75-109.23	6	30	
Acenaphthene	34	4.9	ug/L	48.97	ND	69	24.45-105.5	12	30	
N-Nitrosodipropylamine	37	9.8	ug/L	48.97	ND	75	14.35-130.03	13	30	
Pentachlorophenol	86	29	ug/L	97.94	ND	88	43.33-101.64	4	30	
Phenol	52	9.8	ug/L	97.94	ND	53	22.94-95	9	30	
Pyrene	34	4.9	ug/L	48.97	ND	70	25.28-106.05	10	30	
Surrogate: 2,4,6-Tribromophenol	*93.6*		*ug/L*	*97.94*		*96*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*67.8*		*ug/L*	*97.94*		*69*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*49.6*		*ug/L*	*97.94*		*51*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*67.2*		*ug/L*	*97.94*		*69*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*67.8*		*ug/L*	*97.94*		*69*	*23.73-103.28*			
Surrogate: Phenol-d6	*49.3*		*ug/L*	*97.94*		*50*	*17.76-99.38*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										

Client: University of Arizona- Risk Management Services
Project: Page Ranch
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Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,1-Trichloroethane	ND	0.00050	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,2-Trichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethene	ND	0.00050	mg/L							
1,1-Dichloropropene	ND	0.00050	mg/L							
1,2,3-Trichlorobenzene	ND	0.00050	mg/L							
1,2,3-Trichloropropane	ND	0.00050	mg/L							
1,2,4-Trichlorobenzene	ND	0.00050	mg/L							
1,2,4-Trimethylbenzene	ND	0.00050	mg/L							
1,2-Dichlorobenzene	ND	0.00050	mg/L							
1,2-Dichloroethane	ND	0.00050	mg/L							
1,2-Dichloropropane	ND	0.00050	mg/L							
1,3,5-Trimethylbenzene	ND	0.00050	mg/L							
1,3-Dichlorobenzene	ND	0.00050	mg/L							
1,3-Dichloropropane	ND	0.00050	mg/L							
1,4-Dichlorobenzene	ND	0.00050	mg/L							
2,2-Dichloropropane	ND	0.00050	mg/L							
2-Chlorotoluene	ND	0.00050	mg/L							
4-Chlorotoluene	ND	0.00050	mg/L							
4-Isopropyltoluene	ND	0.00050	mg/L							
Benzene	ND	0.00050	mg/L							
Bromobenzene	ND	0.00050	mg/L							
Bromochloromethane	ND	0.00050	mg/L							
Bromodichloromethane	ND	0.00050	mg/L							
Bromoform	ND	0.00050	mg/L							
Bromomethane	ND	0.00050	mg/L							
Carbon tetrachloride	ND	0.00050	mg/L							
Chlorobenzene	ND	0.00050	mg/L							
Chloroethane	ND	0.00050	mg/L							
Chloroform	ND	0.00050	mg/L							
Chloromethane	ND	0.00050	mg/L							
cis-1,2-Dichloroethene	ND	0.00050	mg/L							
cis-1,3-Dichloropropene	ND	0.00050	mg/L							
Dibromochloromethane	ND	0.00050	mg/L							
Dibromomethane	ND	0.00050	mg/L							
Dichlorodifluoromethane	ND	0.00050	mg/L							
Ethylbenzene	ND	0.00050	mg/L							
Hexachlorobutadiene	ND	0.00050	mg/L							
Isopropylbenzene	ND	0.00050	mg/L							
Methylene chloride	ND	0.00050	mg/L							
Naphthalene	ND	0.00050	mg/L							
n-Butylbenzene	ND	0.00050	mg/L							
n-Propylbenzene	ND	0.00050	mg/L							
sec-Butylbenzene	ND	0.00050	mg/L							
Styrene	ND	0.00050	mg/L							
tert-Butylbenzene	ND	0.00050	mg/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
Tetrachloroethene	ND	0.00050	mg/L							
Toluene	ND	0.00050	mg/L							
trans-1,2-Dichloroethene	ND	0.00050	mg/L							
trans-1,3-Dichloropropene	ND	0.00050	mg/L							
Trichloroethene	ND	0.00050	mg/L							
Trichlorofluoromethane	ND	0.00050	mg/L							
TTHMs	ND	0.00050	mg/L							
Vinyl chloride	ND	0.00050	mg/L							
Xylenes, Total	ND	0.0015	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.95*		*ug/L*	*1.000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.96*		*ug/L*	*1.000*		*96*	*70-130*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,1-Trichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,1,2-Trichloroethane	0.010	0.00050	mg/L	0.01000		105	70-130			
1,1-Dichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130			
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130			
1,3,5-Trimethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,4-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		102	70-130			
2-Chlorotoluene	0.010	0.00050	mg/L	0.01000		104	70-130			
4-Chlorotoluene	0.010	0.00050	mg/L	0.01000		105	70-130			
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		105	70-130			
Benzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Bromobenzene	0.011	0.00050	mg/L	0.01000		106	70-130			
Bromochloromethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Bromodichloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Bromoform	0.011	0.00050	mg/L	0.01000		107	70-130			
Bromomethane	0.012	0.00050	mg/L	0.01000		122	70-130			
Carbon tetrachloride	0.010	0.00050	mg/L	0.01000		105	70-130			
Chlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Chloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloroform	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloromethane	0.010	0.00050	mg/L	0.01000		100	70-130			
cis-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		103	70-130			
cis-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromochloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromomethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Dichlorodifluoromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Ethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		108	70-130			
Isopropylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		106	0-200			
Methylene chloride	0.010	0.00050	mg/L	0.01000		102	70-130			
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130			R6
n-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
n-Propylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
sec-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Styrene	0.011	0.00050	mg/L	0.01000		106	70-130			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Toluene	0.010	0.00050	mg/L	0.01000		104	70-130			
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		102	70-130			
trans-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Trichloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130			
TTHMs	0.042	0.00050	mg/L				70-130			
Vinyl chloride	0.010	0.00050	mg/L	0.01000		104	70-130			
Xylenes, Total	0.031	0.0015	mg/L	0.03000		105	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		107	70-130	4	20	
1,1,1-Trichloroethane	0.011	0.00050	mg/L	0.01000		105	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		110	70-130	4	20	
1,1,2-Trichloroethane	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,1-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,1-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		108	70-130	2	20	
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		111	70-130	6	20	
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130	0.8	20	
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
1,2-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,2-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	1	20	
1,3,5-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,3-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,4-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	5	20	
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		103	70-130	0.9	20	
2-Chlorotoluene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
4-Chlorotoluene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Benzene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Bromobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Bromochloromethane	0.011	0.00050	mg/L	0.01000		111	70-130	5	20	
Bromodichloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Bromoform	0.011	0.00050	mg/L	0.01000		108	70-130	0.9	20	
Bromomethane	0.012	0.00050	mg/L	0.01000		118	70-130	4	20	
Carbon tetrachloride	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Chlorobenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Chloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
Chloroform	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Chloromethane	0.010	0.00050	mg/L	0.01000		103	70-130	3	20	
cis-1,2-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
cis-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	1	20	
Dibromochloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Dibromomethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Dichlorodifluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Ethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		111	70-130	2	20	
Isopropylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		108	0-200	1	200	
Methylene chloride	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
Naphthalene	0.012	0.00050	mg/L	0.01000		120	70-130	22	20	R6
n-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
n-Propylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
sec-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Styrene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Toluene	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
trans-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
Trichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		110	70-130	3	20	
TTHMs	0.043	0.00050	mg/L				70-130	3	20	
Vinyl chloride	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Xylenes, Total	0.033	0.0015	mg/L	0.03000		108	70-130	3	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.1*		*ug/L*	*1.000*		*106*	*70-130*			
Batch 1210328 - EPA 524.2										
Blank (1210328-BLK1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	ND	0.00050	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.90*		*ug/L*	*1.000*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.94*		*ug/L*	*1.000*		*94*	*70-130*			
LCS (1210328-BS1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0088	0.00050	mg/L	0.01000		88	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
LCS Dup (1210328-BSD1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130	9	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*100*	*70-130*			

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0582
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210190 - E300										
Blank (1210190-BLK1)				Prepared & Analyzed: 10/18/2012						
Chloride	ND	1.0	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1210190-BS1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		96	90-110			
Sulfate	13	5.0	mg/L	12.50		100	90-110			
LCS Dup (1210190-BSD1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		97	90-110	0.08	10	
Sulfate	12	5.0	mg/L	12.50		100	90-110	0.5	10	
Matrix Spike (1210190-MS2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120			
Sulfate	14	5.0	mg/L	12.50	2.2	95	80-120			
Matrix Spike Dup (1210190-MSD2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120	0.04	10	
Sulfate	14	5.0	mg/L	12.50	2.2	94	80-120	0.5	10	

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 12J0582 DATE 10/17/12 PAGE 1 OF 1

PROJECT NAME Page Ranch #
CONTACT NAME Lloyd Wundrock
COMPANY NAME UA Risk Management
ADDRESS PO Box 210300, Tucson, AZ 85721
PHONE 621-1590 FAX 621-3706
SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Base Neutrals 625/8270	Acids	Volatile Organics 624/624.2/8260	TTHMS	HAA5	Pesticides 8081	PCB's 8082	NO_2	NO_3	TKN	Oil and Grease Grav. 1664A	VOA	TCLP Analysis Semi-VOA	Pest.	TCLP	Dissolved Metals	Total	RCRA8	Total	Cyanide Amen.	WAD	SDWA-INORGANICS PRIMARY	SECONDARY	MPN Coliform	Collert	pH	Cl_2	COD	BOD	TSS	200.7 Metals	300.0 Anions
MW #2	10/17/12	11:15		GW	12	X	X			X																									X	X

1. RELINQUISHED BY:	2. RECEIVED BY:	TURNAROUND REQUIREMENTS:	REPORT REQUIREMENTS:	INVOICE INFORMATION:	SAMPLE RECEIPT:
Signature: Lloyd Wundrock	Signature: Jeff G. Christian	✓ Standard (approx. 10 days)*	I. Routine Report	Account ☐ Y ☐ N	
Printed Name: Lloyd Wundrock	Printed Name: Jeff	Next Day ☐ 2 Day ☐ 5 Day*	II. Report (includes DUP, MS, MSD, as required, may be charged as samples)	P.O. #	
Firm: UofA	Firm: TLI	Email Preliminary Results To:	✓ III. Date Validation Report (Includes All Raw Data) Add 10% to invoice	Bill to:	Total Containers 12
Date/Time: 10-17-2012/1300 hrs	Date/Time: 10/17/12 1400	* Working Days			Temperature 3.1
					☐ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:	4. RECEIVED BY:	* LEGEND
Signature: Jeff G. Christian	Signature: Stephen Luchsen	DW = DRINKING WATER
Printed Name: Jeff	Printed Name:	GW = GROUNDWATER
Firm: TLI	Firm: TURNER LABORATORIES, INC.	SD = SOLID
Date/Time: 10/17/12 2:15	Date/Time: 10.17.12 1425	SG = SLUDGE
		SL = SOIL
		ST = STORMWATER
		WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis: ☐ Yes ☐ No	Custody Seals ☐	Preservation Confirmation ☐
ADEQ Forms: ☐ Yes ☐ No	Container Intact ☐	Appropriate Head Space ☐
Mail ADEQ Forms: ☐ Yes ☐ No	COC / Labels Agree ☐	Received Within Hold Time ☐

Metals-Mn, Na Anions-Cl, SO4 QA/QC Level III Package
Hard Copy Report/Writable CD Send Report to ADEQ electronically

November 30, 2012

Jeff Christensen
University of Arizona- Risk Management Services
PO Box 210300, RM A414
Tucson, AZ 85721

TEL (520) 621-5861
FAX (520) 621-3706

Work Order No.: 12J0583
Order Name: MW 3

RE: Page Ranch

Dear Jeff Christensen,

Turner Laboratories, Inc. received 2 sample(s) on 10/17/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Servic
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

Order: MW 3

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12J0583-01	MW #3	Ground Water	10/17/2012 1020
12J0583-02	Trip Blank	Trip Blank	10/17/2012 0000

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

Case Narrative

The naphthalene recovery in the closing CCV was below detection limits. Since sample 12J0583-02 is a trip blank. There is insufficient sample volume available for re-analysis.

L1	The associated LCS/LCSD recovery was above laboratory acceptance limits.
N1	See case narrative.
R6	LCS/LCSD RPD exceeded the method acceptance limit. Recovery met the acceptance criteria.
S4	Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
S6	Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0583
Lab Sample ID: 12J0583-01

Client Sample ID: MW #3
Collection Date/Time: 10/17/2012 1020
Matrix: Ground Water
Order Name: MW 3

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
ICP Total Metals-E200.7								
Manganese	0.047	0.020		mg/L	1	10/18/2012 1320	10/25/2012 1745	RAD
Sodium	34	5.0		mg/L	1	10/18/2012 1320	11/05/2012 1319	RAD
Anions by Ion Chromatography-E300								
Chloride	5.3	1.0		mg/L	1	10/18/2012 1000	10/18/2012 1408	EW
Sulfate	ND	5.0		mg/L	1	10/18/2012 1000	10/18/2012 1408	EW
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0583
Lab Sample ID: 12J0583-01

Client Sample ID: MW #3
Collection Date/Time: 10/17/2012 1020
Matrix: Ground Water
Order Name: MW 3

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Naphthalene	ND	0.00050		mg/L	1	10/31/2012 1020	10/31/2012 1502	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/30/2012 2234	KP
Surr: 1,2-Dichlorobenzene-d4	*86*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1502*	*KP*
Surr: 1,2-Dichlorobenzene-d4	*95*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2234*	*KP*
Surr: 4-Bromofluorobenzene	*91*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1502*	*KP*
Surr: 4-Bromofluorobenzene	*98*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2234*	*KP*

Organochlorine Pesticides-SW8081A

4,4´-DDD	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
4,4´-DDE	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
4,4´-DDT	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Aldrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
alpha-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
alpha-Chlordane	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
beta-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
delta-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Dieldrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Endosulfan I	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Endosulfan II	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0583
Lab Sample ID: 12J0583-01

Client Sample ID: MW #3
Collection Date/Time: 10/17/2012 1020
Matrix: Ground Water
Order Name: MW 3

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Endosulfan sulfate	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Endrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Endrin aldehyde	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Endrin ketone	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
gamma-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
gamma-Chlordane	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Heptachlor	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Heptachlor epoxide	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Methoxychlor	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Toxaphene	ND	1.0		ug/L	1	10/18/2012 1550	10/24/2012 1844	MD
Surr: Decachlorobiphenyl	*77*	*51.1-138.5*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1844*	*MD*
Surr: Tetrachloro-m-xylene	*67*	*39.1-120*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1844*	*MD*
Semivolatile Organic Compounds-SW8270C								
1,2,4-Trichlorobenzene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
1,2-Dichlorobenzene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
1,3-Dichlorobenzene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
1,4-Dichlorobenzene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2,4,5-Trichlorophenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2,4,6-Trichlorophenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2,4-Dichlorophenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2,4-Dimethylphenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2,4-Dinitrophenol	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2,4-Dinitrotoluene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2,6-Dinitrotoluene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2-Chloronaphthalene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2-Chlorophenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2-Methylnaphthalene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2-Methylphenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2-Nitroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
2-Nitrophenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
3,3´-Dichlorobenzidine	ND	20	V1	ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
3-Nitroaniline	ND	20	V1	ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
4,6-Dinitro-2-methylphenol	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
4-Bromophenyl phenyl ether	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
4-Chloro-3-methylphenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
4-Chloroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
4-Chlorophenyl phenyl ether	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
4-Methylphenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
4-Nitroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
4-Nitrophenol	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Acenaphthene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0583
Lab Sample ID: 12J0583-01

Client Sample ID: MW #3
Collection Date/Time: 10/17/2012 1020
Matrix: Ground Water
Order Name: MW 3

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Acenaphthylene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Aniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Benzo[a]anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Benzo[a]pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Benzo[b,k]fluoranthene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Benzo[g,h,i]perylene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Benzoic acid	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Benzyl alcohol	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Bis(2-chloroethoxy)methane	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Bis(2-chloroethyl)ether	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Bis(2-chloroisopropyl)ether	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Bis(2-ethylhexyl)phthalate	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Butyl benzyl phthalate	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Chrysene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Dibenz[a,h]anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Dibenzofuran	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Diethyl phthalate	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Dimethyl phthalate	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Di-n-butyl phthalate	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Di-n-octyl phthalate	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Fluoranthene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Fluorene	ND	5.0	V1	ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Hexachlorobenzene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Hexachlorobutadiene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Hexachlorocyclopentadiene	ND	10	V1	ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Hexachloroethane	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Indeno[1,2,3-cd]pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Isophorone	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Naphthalene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Nitrobenzene	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
N-Nitrosodimethylamine	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
N-Nitrosodiphenylamine	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
N-Nitrosodipropylamine	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Pentachlorophenol	ND	30		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Phenanthrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Phenol	ND	10		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1903	MD
Surr: 2,4,6-Tribromophenol	*89*	*47.48-81.05*	*S4*	*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1903*	*MD*
Surr: 2-Fluorobiphenyl	*61*	*38.2-73.43*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1903*	*MD*
Surr: 2-Fluorophenol	*33*	*0-78.37*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1903*	*MD*
Surr: 4-Terphenyl-d14	*65*	*39.29-86.74*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1903*	*MD*

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	MW #3
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 1020
Work Order:	12J0583	**Matrix:**	Ground Water
Lab Sample ID:	12J0583-01	**Order Name:**	MW 3

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Surr: Nitrobenzene-d5	*53*	*34.79-78.74*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1903*	*MD*
Surr: Phenol-d6	*36*	*1.69-37.11*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1903*	*MD*

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	Trip Blank
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0000
Work Order:	12J0583	**Matrix:**	Trip Blank
Lab Sample ID:	12J0583-02	**Order Name:**	MW 3

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	Trip Blank
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0000
Work Order:	12J0583	**Matrix:**	Trip Blank
Lab Sample ID:	12J0583-02	**Order Name:**	MW 3

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Naphthalene	ND	0.00050	N1	mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/30/2012 2305	KP
Surr: 1,2-Dichlorobenzene-d4	*98*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2305*	*KP*
Surr: 4-Bromofluorobenzene	*100*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2305*	*KP*

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210230 - E200.7										
Blank (1210230-BLK1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	ND	0.020	mg/L							
Sodium	ND	5.0	mg/L							
LCS (1210230-BS1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.47	0.020	mg/L	0.5000		95	85-115			
Sodium	11	5.0	mg/L	10.00		111	85-115			
LCS Dup (1210230-BSD1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.47	0.020	mg/L	0.5000		94	85-115	0.7	20	
Sodium	11	5.0	mg/L	10.00		110	85-115	1	20	
Matrix Spike (1210230-MS1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.53	0.020	mg/L	0.5000	0.066	93	70-130			
Sodium	41	5.0	mg/L	10.00	31	103	70-130			
Matrix Spike (1210230-MS2)		**Source: 12J0589-01**		Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.51	0.020	mg/L	0.5000	0.051	91	70-130			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Blank (1210206-BLK1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDD	ND	0.10	ug/L							
4,4´-DDE	ND	0.10	ug/L							
4,4´-DDT	ND	0.10	ug/L							
Aldrin	ND	0.10	ug/L							
alpha-BHC	ND	0.10	ug/L							
alpha-Chlordane	ND	0.10	ug/L							
beta-BHC	ND	0.10	ug/L							
delta-BHC	ND	0.10	ug/L							
Dieldrin	ND	0.10	ug/L							
Endosulfan I	ND	0.10	ug/L							
Endosulfan II	ND	0.10	ug/L							
Endosulfan sulfate	ND	0.10	ug/L							
Endrin	ND	0.10	ug/L							
Endrin aldehyde	ND	0.10	ug/L							
Endrin ketone	ND	0.10	ug/L							
gamma-BHC	ND	0.10	ug/L							
gamma-Chlordane	ND	0.10	ug/L							
Heptachlor	ND	0.10	ug/L							
Heptachlor epoxide	ND	0.10	ug/L							
Methoxychlor	ND	0.10	ug/L							
Toxaphene	ND	1.0	ug/L							
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			
Surrogate: Tetrachloro-m-xylene	*0.650*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS (1210206-BS1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.97	0.10	ug/L	1.000		97	57-116.5			
Aldrin	0.43	0.10	ug/L	0.5000		85	48.4-113.2			
Dieldrin	0.82	0.10	ug/L	1.000		82	53.2-117.5			
Endrin	0.91	0.10	ug/L	1.000		91	49.2-123.7			
gamma-BHC	0.43	0.10	ug/L	0.5000		86	58.9-127.4			
Heptachlor	0.42	0.10	ug/L	0.5000		83	48.1-120			
Surrogate: Decachlorobiphenyl	*0.775*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.652*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS Dup (1210206-BSD1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.96	0.10	ug/L	1.000		96	57-116.5	2	30	
Aldrin	0.42	0.10	ug/L	0.5000		84	48.4-113.2	1	30	
Dieldrin	0.80	0.10	ug/L	1.000		80	53.2-117.5	2	30	
Endrin	0.89	0.10	ug/L	1.000		89	49.2-123.7	2	30	
gamma-BHC	0.41	0.10	ug/L	0.5000		83	58.9-127.4	4	30	
Heptachlor	0.41	0.10	ug/L	0.5000		82	48.1-120	0.9	30	
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.670*		*ug/L*	*1.000*		*67*	*53.3-102.2*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Matrix Spike (1210206-MS1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.95	0.099	ug/L	0.9921	ND	96	16.5-164.5			
Aldrin	0.42	0.099	ug/L	0.4960	ND	85	20.7-143.6			
Dieldrin	0.80	0.099	ug/L	0.9921	ND	81	53.5-127.4			
Endrin	0.86	0.099	ug/L	0.9921	ND	87	52.9-133.2			
gamma-BHC	0.41	0.099	ug/L	0.4960	ND	82	51.9-134.6			
Heptachlor	0.41	0.099	ug/L	0.4960	ND	83	32.7-141.3			
Surrogate: Decachlorobiphenyl	*0.757*		*ug/L*	*0.9921*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.666*		*ug/L*	*0.9921*		*67*	*39.1-120*			
Matrix Spike Dup (1210206-MSD1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.93	0.098	ug/L	0.9814	ND	95	16.5-164.5	2	30	
Aldrin	0.41	0.098	ug/L	0.4907	ND	83	20.7-143.6	3	30	
Dieldrin	0.78	0.098	ug/L	0.9814	ND	80	53.5-127.4	2	30	
Endrin	0.87	0.098	ug/L	0.9814	ND	89	52.9-133.2	0.9	30	
gamma-BHC	0.40	0.098	ug/L	0.4907	ND	82	51.9-134.6	1	30	
Heptachlor	0.40	0.098	ug/L	0.4907	ND	82	32.7-141.3	3	30	
Surrogate: Decachlorobiphenyl	*0.742*		*ug/L*	*0.9814*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.633*		*ug/L*	*0.9814*		*65*	*39.1-120*			
Batch 1210225 - SW8270C										

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Blank (1210225-BLK1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	ND	10	ug/L							
1,2-Dichlorobenzene	ND	10	ug/L							
1,3-Dichlorobenzene	ND	10	ug/L							
1,4-Dichlorobenzene	ND	10	ug/L							
2,4,5-Trichlorophenol	ND	10	ug/L							
2,4,6-Trichlorophenol	ND	10	ug/L							
2,4-Dichlorophenol	ND	10	ug/L							
2,4-Dimethylphenol	ND	10	ug/L							
2,4-Dinitrophenol	ND	50	ug/L							
2,4-Dinitrotoluene	ND	10	ug/L							
2,6-Dinitrotoluene	ND	10	ug/L							
2-Chloronaphthalene	ND	10	ug/L							
2-Chlorophenol	ND	10	ug/L							
2-Methylnaphthalene	ND	5.0	ug/L							
2-Methylphenol	ND	10	ug/L							
2-Nitroaniline	ND	20	ug/L							
2-Nitrophenol	ND	10	ug/L							
3,3´-Dichlorobenzidine	ND	20	ug/L							
3-Nitroaniline	ND	20	ug/L							
4,6-Dinitro-2-methylphenol	ND	20	ug/L							
4-Bromophenyl phenyl ether	ND	10	ug/L							
4-Chloro-3-methylphenol	ND	10	ug/L							
4-Chloroaniline	ND	20	ug/L							
4-Chlorophenyl phenyl ether	ND	10	ug/L							
4-Methylphenol	ND	10	ug/L							
4-Nitroaniline	ND	20	ug/L							
4-Nitrophenol	ND	50	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Aniline	ND	20	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo[a]anthracene	ND	5.0	ug/L							
Benzo[a]pyrene	ND	5.0	ug/L							
Benzo[b,k]fluoranthene	ND	10	ug/L							
Benzo[g,h,i]perylene	ND	5.0	ug/L							
Benzoic acid	ND	50	ug/L							
Benzyl alcohol	ND	5.0	ug/L							
Bis(2-chloroethoxy)methane	ND	10	ug/L							
Bis(2-chloroethyl)ether	ND	10	ug/L							
Bis(2-chloroisopropyl)ether	ND	10	ug/L							
Bis(2-ethylhexyl)phthalate	ND	10	ug/L							
Butyl benzyl phthalate	ND	10	ug/L							
Chrysene	ND	5.0	ug/L							
Dibenz[a,h]anthracene	ND	5.0	ug/L							
Dibenzofuran	ND	5.0	ug/L							
Diethyl phthalate	ND	10	ug/L							
Dimethyl phthalate	ND	10	ug/L							
Di-n-butyl phthalate	ND	10	ug/L							

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Blank (1210225-BLK1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
Di-n-octyl phthalate	ND	10	ug/L							
Fluoranthene	ND	5.0	ug/L							
Fluorene	ND	5.0	ug/L							
Hexachlorobenzene	ND	10	ug/L							
Hexachlorobutadiene	ND	10	ug/L							
Hexachlorocyclopentadiene	ND	10	ug/L							
Hexachloroethane	ND	10	ug/L							
Indeno[1,2,3-cd]pyrene	ND	5.0	ug/L							
Isophorone	ND	10	ug/L							
Naphthalene	ND	5.0	ug/L							
Nitrobenzene	ND	10	ug/L							
N-Nitrosodimethylamine	ND	10	ug/L							
N-Nitrosodiphenylamine	ND	10	ug/L							
N-Nitrosodipropylamine	ND	10	ug/L							
Pentachlorophenol	ND	30	ug/L							
Phenanthrene	ND	5.0	ug/L							
Phenol	ND	10	ug/L							
Pyrene	ND	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*85.9*		*ug/L*	*100.0*		*86*	*48.18-103.25*			*S4*
Surrogate: 2-Fluorobiphenyl	*68.6*		*ug/L*	*100.0*		*69*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*43.0*		*ug/L*	*100.0*		*43*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*63.6*		*ug/L*	*100.0*		*64*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*65.9*		*ug/L*	*100.0*		*66*	*23.73-103.28*			
Surrogate: Phenol-d6	*44.4*		*ug/L*	*100.0*		*44*	*17.76-99.38*			
LCS (1210225-BS1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	30	10	ug/L	50.00		60	44.61-96.97			
1,4-Dichlorobenzene	23	10	ug/L	50.00		46	34.76-84.41			
2,4-Dinitrotoluene	29	10	ug/L	50.00		57	53.41-93.7			
2-Chlorophenol	54	10	ug/L	100.0		54	24.48-90.36			
4-Chloro-3-methylphenol	58	10	ug/L	100.0		58	35.71-98.42			
4-Nitrophenol	52	50	ug/L	100.0		52	29.09-97.75			
Acenaphthene	28	5.0	ug/L	50.00		56	45.55-93.72			
N-Nitrosodipropylamine	31	10	ug/L	50.00		62	36.51-113.8			
Pentachlorophenol	73	30	ug/L	100.0		73	56.81-93.77			
Phenol	33	10	ug/L	100.0		33	25.83-92.79			
Pyrene	31	5.0	ug/L	50.00		63	46.41-100.1			
Surrogate: 2,4,6-Tribromophenol	*78.2*		*ug/L*	*100.0*		*78*	*50.03-106.09*			
Surrogate: 2-Fluorobiphenyl	*56.6*		*ug/L*	*100.0*		*57*	*48.56-92.49*			
Surrogate: 2-Fluorophenol	*32.4*		*ug/L*	*100.0*		*32*	*0-75.67*			
Surrogate: 4-Terphenyl-d14	*54.8*		*ug/L*	*100.0*		*55*	*46-86.35*			
Surrogate: Nitrobenzene-d5	*57.0*		*ug/L*	*100.0*		*57*	*39.5-94.5*			
Surrogate: Phenol-d6	*30.3*		*ug/L*	*100.0*		*30*	*32.72-92.61*			*S6*

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
LCS Dup (1210225-BSD1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	39	10	ug/L	50.00		77	44.61-96.97	25	30	L1
1,4-Dichlorobenzene	30	10	ug/L	50.00		60	34.76-84.41	27	30	
2,4-Dinitrotoluene	36	10	ug/L	50.00		71	53.41-93.7	22	30	
2-Chlorophenol	65	10	ug/L	100.0		65	24.48-90.36	19	30	
4-Chloro-3-methylphenol	68	10	ug/L	100.0		68	35.71-98.42	16	30	
4-Nitrophenol	64	50	ug/L	100.0		64	29.09-97.75	22	30	
Acenaphthene	35	5.0	ug/L	50.00		69	45.55-93.72	20	30	
N-Nitrosodipropylamine	38	10	ug/L	50.00		77	36.51-113.8	22	30	
Pentachlorophenol	84	30	ug/L	100.0		84	56.81-93.77	15	30	L1
Phenol	38	10	ug/L	100.0		38	25.83-92.79	16	30	
Pyrene	36	5.0	ug/L	50.00		71	46.41-100.1	13	30	
Surrogate: 2,4,6-Tribromophenol	*97.7*		*ug/L*	*100.0*		*98*	*50.03-106.09*			*S4*
Surrogate: 2-Fluorobiphenyl	*67.7*		*ug/L*	*100.0*		*68*	*48.56-92.49*			
Surrogate: 2-Fluorophenol	*37.9*		*ug/L*	*100.0*		*38*	*17.64-75.67*			
Surrogate: 4-Terphenyl-d14	*66.5*		*ug/L*	*100.0*		*67*	*46-86.35*			
Surrogate: Nitrobenzene-d5	*70.2*		*ug/L*	*100.0*		*70*	*39.5-94.5*			
Surrogate: Phenol-d6	*36.6*		*ug/L*	*100.0*		*37*	*32.72-92.61*			
Matrix Spike (1210225-MS1)		**Source: 12J0584-01**		Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	39	10	ug/L	49.90	ND	78	26.12-109.76			
1,4-Dichlorobenzene	28	10	ug/L	49.90	ND	57	23.67-90			
2,4-Dinitrotoluene	33	10	ug/L	49.90	ND	67	42.38-99.06			
2-Chlorophenol	65	10	ug/L	99.80	ND	66	13.58-96.61			
4-Chloro-3-methylphenol	69	10	ug/L	99.80	ND	70	34.59-92.25			
4-Nitrophenol	55	50	ug/L	99.80	ND	55	20.75-109.23			
Acenaphthene	33	5.0	ug/L	49.90	ND	67	24.45-105.5			
N-Nitrosodipropylamine	37	10	ug/L	49.90	ND	75	14.35-130.03			
Pentachlorophenol	72	30	ug/L	99.80	ND	73	43.33-101.64			
Phenol	51	10	ug/L	99.80	ND	51	22.94-95			
Pyrene	34	5.0	ug/L	49.90	ND	69	25.28-106.05			
Surrogate: 2,4,6-Tribromophenol	*90.9*		*ug/L*	*99.80*		*91*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*65.8*		*ug/L*	*99.80*		*66*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*44.2*		*ug/L*	*99.80*		*44*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*63.1*		*ug/L*	*99.80*		*63*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*73.0*		*ug/L*	*99.80*		*73*	*23.73-103.28*			
Surrogate: Phenol-d6	*51.0*		*ug/L*	*99.80*		*51*	*17.76-99.38*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Matrix Spike Dup (1210225-MSD1)		**Source: 12J0584-01**		Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	38	10	ug/L	50.20	ND	75	26.12-109.76	3	30	
1,4-Dichlorobenzene	29	10	ug/L	50.20	ND	57	23.67-90	1	30	
2,4-Dinitrotoluene	34	10	ug/L	50.20	ND	68	42.38-99.06	2	30	
2-Chlorophenol	67	10	ug/L	100.4	ND	67	13.58-96.61	2	30	
4-Chloro-3-methylphenol	70	10	ug/L	100.4	ND	70	34.59-92.25	1	30	
4-Nitrophenol	63	50	ug/L	100.4	ND	63	20.75-109.23	15	30	
Acenaphthene	34	5.0	ug/L	50.20	ND	68	24.45-105.5	3	30	
N-Nitrosodipropylamine	38	10	ug/L	50.20	ND	76	14.35-130.03	3	30	
Pentachlorophenol	86	30	ug/L	100.4	ND	86	43.33-101.64	17	30	
Phenol	51	10	ug/L	100.4	ND	50	22.94-95	0.2	30	
Pyrene	36	5.0	ug/L	50.20	ND	73	25.28-106.05	6	30	
Surrogate: 2,4,6-Tribromophenol	*97.8*		*ug/L*	*100.4*		*97*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*69.9*		*ug/L*	*100.4*		*70*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*48.9*		*ug/L*	*100.4*		*49*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*66.6*		*ug/L*	*100.4*		*66*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*72.6*		*ug/L*	*100.4*		*72*	*23.73-103.28*			
Surrogate: Phenol-d6	*50.5*		*ug/L*	*100.4*		*50*	*17.76-99.38*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										

Client: University of Arizona- Risk Management Services
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,1-Trichloroethane	ND	0.00050	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,2-Trichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethene	ND	0.00050	mg/L							
1,1-Dichloropropene	ND	0.00050	mg/L							
1,2,3-Trichlorobenzene	ND	0.00050	mg/L							
1,2,3-Trichloropropane	ND	0.00050	mg/L							
1,2,4-Trichlorobenzene	ND	0.00050	mg/L							
1,2,4-Trimethylbenzene	ND	0.00050	mg/L							
1,2-Dichlorobenzene	ND	0.00050	mg/L							
1,2-Dichloroethane	ND	0.00050	mg/L							
1,2-Dichloropropane	ND	0.00050	mg/L							
1,3,5-Trimethylbenzene	ND	0.00050	mg/L							
1,3-Dichlorobenzene	ND	0.00050	mg/L							
1,3-Dichloropropane	ND	0.00050	mg/L							
1,4-Dichlorobenzene	ND	0.00050	mg/L							
2,2-Dichloropropane	ND	0.00050	mg/L							
2-Chlorotoluene	ND	0.00050	mg/L							
4-Chlorotoluene	ND	0.00050	mg/L							
4-Isopropyltoluene	ND	0.00050	mg/L							
Benzene	ND	0.00050	mg/L							
Bromobenzene	ND	0.00050	mg/L							
Bromochloromethane	ND	0.00050	mg/L							
Bromodichloromethane	ND	0.00050	mg/L							
Bromoform	ND	0.00050	mg/L							
Bromomethane	ND	0.00050	mg/L							
Carbon tetrachloride	ND	0.00050	mg/L							
Chlorobenzene	ND	0.00050	mg/L							
Chloroethane	ND	0.00050	mg/L							
Chloroform	ND	0.00050	mg/L							
Chloromethane	ND	0.00050	mg/L							
cis-1,2-Dichloroethene	ND	0.00050	mg/L							
cis-1,3-Dichloropropene	ND	0.00050	mg/L							
Dibromochloromethane	ND	0.00050	mg/L							
Dibromomethane	ND	0.00050	mg/L							
Dichlorodifluoromethane	ND	0.00050	mg/L							
Ethylbenzene	ND	0.00050	mg/L							
Hexachlorobutadiene	ND	0.00050	mg/L							
Isopropylbenzene	ND	0.00050	mg/L							
Methylene chloride	ND	0.00050	mg/L							
Naphthalene	ND	0.00050	mg/L							
n-Butylbenzene	ND	0.00050	mg/L							
n-Propylbenzene	ND	0.00050	mg/L							
sec-Butylbenzene	ND	0.00050	mg/L							
Styrene	ND	0.00050	mg/L							
tert-Butylbenzene	ND	0.00050	mg/L							

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
Tetrachloroethene	ND	0.00050	mg/L							
Toluene	ND	0.00050	mg/L							
trans-1,2-Dichloroethene	ND	0.00050	mg/L							
trans-1,3-Dichloropropene	ND	0.00050	mg/L							
Trichloroethene	ND	0.00050	mg/L							
Trichlorofluoromethane	ND	0.00050	mg/L							
TTHMs	ND	0.00050	mg/L							
Vinyl chloride	ND	0.00050	mg/L							
Xylenes, Total	ND	0.0015	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.95*		*ug/L*	*1.000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.96*		*ug/L*	*1.000*		*96*	*70-130*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,1-Trichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,1,2-Trichloroethane	0.010	0.00050	mg/L	0.01000		105	70-130			
1,1-Dichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130			
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130			
1,3,5-Trimethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,4-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		102	70-130			
2-Chlorotoluene	0.010	0.00050	mg/L	0.01000		104	70-130			
4-Chlorotoluene	0.010	0.00050	mg/L	0.01000		105	70-130			
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		105	70-130			
Benzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Bromobenzene	0.011	0.00050	mg/L	0.01000		106	70-130			
Bromochloromethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Bromodichloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Bromoform	0.011	0.00050	mg/L	0.01000		107	70-130			
Bromomethane	0.012	0.00050	mg/L	0.01000		122	70-130			
Carbon tetrachloride	0.010	0.00050	mg/L	0.01000		105	70-130			
Chlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Chloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloroform	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloromethane	0.010	0.00050	mg/L	0.01000		100	70-130			
cis-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		103	70-130			
cis-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromochloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromomethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Dichlorodifluoromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Ethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		108	70-130			
Isopropylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		106	0-200			
Methylene chloride	0.010	0.00050	mg/L	0.01000		102	70-130			
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130			R6
n-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
n-Propylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
sec-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Styrene	0.011	0.00050	mg/L	0.01000		106	70-130			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Toluene	0.010	0.00050	mg/L	0.01000		104	70-130			
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		102	70-130			
trans-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Trichloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130			
TTHMs	0.042	0.00050	mg/L				70-130			
Vinyl chloride	0.010	0.00050	mg/L	0.01000		104	70-130			
Xylenes, Total	0.031	0.0015	mg/L	0.03000		105	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		107	70-130	4	20	
1,1,1-Trichloroethane	0.011	0.00050	mg/L	0.01000		105	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		110	70-130	4	20	
1,1,2-Trichloroethane	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,1-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,1-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		108	70-130	2	20	
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		111	70-130	6	20	
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130	0.8	20	
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
1,2-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,2-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	1	20	
1,3,5-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,3-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,4-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	5	20	
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		103	70-130	0.9	20	
2-Chlorotoluene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
4-Chlorotoluene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Benzene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Bromobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Bromochloromethane	0.011	0.00050	mg/L	0.01000		111	70-130	5	20	
Bromodichloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Bromoform	0.011	0.00050	mg/L	0.01000		108	70-130	0.9	20	
Bromomethane	0.012	0.00050	mg/L	0.01000		118	70-130	4	20	
Carbon tetrachloride	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Chlorobenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Chloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
Chloroform	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Chloromethane	0.010	0.00050	mg/L	0.01000		103	70-130	3	20	
cis-1,2-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
cis-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	1	20	
Dibromochloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Dibromomethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Dichlorodifluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Ethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		111	70-130	2	20	
Isopropylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		108	0-200	1	200	
Methylene chloride	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
Naphthalene	0.012	0.00050	mg/L	0.01000		120	70-130	22	20	R6
n-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
n-Propylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
sec-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Styrene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Toluene	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
trans-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
Trichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		110	70-130	3	20	
TTHMs	0.043	0.00050	mg/L				70-130	3	20	
Vinyl chloride	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Xylenes, Total	0.033	0.0015	mg/L	0.03000		108	70-130	3	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.1*		*ug/L*	*1.000*		*106*	*70-130*			
Batch 1210328 - EPA 524.2										
Blank (1210328-BLK1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	ND	0.00050	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.90*		*ug/L*	*1.000*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.94*		*ug/L*	*1.000*		*94*	*70-130*			
LCS (1210328-BS1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0088	0.00050	mg/L	0.01000		88	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
LCS Dup (1210328-BSD1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130	9	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*100*	*70-130*			

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0583
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210190 - E300										
Blank (1210190-BLK1)				Prepared & Analyzed: 10/18/2012						
Chloride	ND	1.0	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1210190-BS1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		96	90-110			
Sulfate	13	5.0	mg/L	12.50		100	90-110			
LCS Dup (1210190-BSD1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		97	90-110	0.08	10	
Sulfate	12	5.0	mg/L	12.50		100	90-110	0.5	10	
Matrix Spike (1210190-MS2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120			
Sulfate	14	5.0	mg/L	12.50	2.2	95	80-120			
Matrix Spike Dup (1210190-MSD2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120	0.04	10	
Sulfate	14	5.0	mg/L	12.50	2.2	94	80-120	0.5	10	

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1210583 DATE 10/17/12 PAGE ____ OF 1

PROJECT NAME Page Ranch #
CONTACT NAME Lloyd Wundrock
COMPANY NAME UA Risk Management
ADDRESS PO Box 210300, Tucson, AZ 85721
PHONE 621-1590 FAX 621-3706
SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Base Neutrals 625/8270	Acids	Volatile Organics 624/524.2/8260	TTHMS	HAA5	Pesticides 8081	PCB's 8082	NO_2	NO_3	TKN	Oil and Grease Grav. 1664A	VOA	TCLP Analysis Semi-VOA	Pest.	TCLP	Dissolved	Metals Total	Total	RCRA8	Cyanide Amen.	WAD	Total	SDWA-INORGANICS PRIMARY	SECONDARY	MPN	Coliform Collect	pH	Cl_2	COD	Cl_2	TSS	BOD	200.7 Metals	300.0 Anions			
MW #3	10/17/12	10:20		GW	12	X	X			X																											X	X				

1. RELINQUISHED BY: Signature; Printed Name L Wundrock; Firm UofA; Date/Time 10-17-2012/1300 MS
2. RECEIVED BY: Signature; Printed Name Neil G. Christen; Firm USA; Date/Time 10/17/12 1:00
3. RELINQUISHED BY: Signature; Printed Name Neil G. Christen; Firm UofA; Date/Time 10/17/12 2:15
4. RECEIVED BY: Signature; Printed Name Stephen Cudba; Firm TURNER LABORATORIES, INC.; Date/Time 10/17/12 1425

TURNAROUND REQUIREMENTS:
- [x] Standard (approx. 10 days)*
- [ ] Next Day [ ] 2 Day [ ] 5 Day*
- [ ] Email Preliminary Results To:

* Working Days

REPORT REQUIREMENTS:
- [ ] I. Routine Report
- [ ] II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
- [x] III. Date Validation Report (Includes All Raw Data) Add 10% to invoice

INVOICE INFORMATION:
Account [ ] Y [ ] N
P.O. #
Bill to:

SAMPLE RECEIPT:
Total Containers 12
Temperature 3.1
[ ] Wet Ice [ ] Blue Ice

* LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:
- Compliance Analysis: [ ] Yes [ ] No
- ADEQ Forms: [ ] Yes [ ] No
- Mail ADEQ Forms: [ ] Yes [ ] No
- Custody Seals [ ]
- Container Intact [x]
- COC / Labels Agree [x]
- Preservation Confirmation [x]
- Appropriate Head Space [x]
- Received Within Hold Time [x]

Metals-Mn, Na Anions-Cl, SO4 QA/QC Level III Package
Hard Copy Report/Writable CD Send Report to ADEQ electronically

December 03, 2012

Jeff Christensen
University of Arizona- Risk Management Services
PO Box 210300, RM A414
Tucson, AZ 85721

TEL (520) 621-5861
FAX (520) 621-3706

Work Order No.: 12J0584
Order Name: MW 4

RE: Page Ranch

Dear Jeff Christensen,

Turner Laboratories, Inc. received 2 sample(s) on 10/17/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 12/03/2012

Client: University of Arizona- Risk Management Servic
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

Order: MW 4

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12J0584-01	MW #4	Ground Water	10/17/2012 1220
12J0584-02	Trip Blank	Trip Blank	10/17/2012 0000

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

Case Narrative

The naphthalene recovery in the closing CCV was below detection limits. Since sample 12J0584-02 is a trip blank. There is insufficient sample volume available for re-analysis.

L1	The associated LCS/LCSD recovery was above laboratory acceptance limits.
N1	See case narrative.
R6	LCS/LCSD RPD exceeded the method acceptance limit. Recovery met the acceptance criteria.
S4	Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
S6	Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 12/03/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0584
Lab Sample ID: 12J0584-01

Client Sample ID: MW #4
Collection Date/Time: 10/17/2012 1220
Matrix: Ground Water
Order Name: MW 4

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
ICP Total Metals-E200.7								
Manganese	0.066	0.020		mg/L	1	10/18/2012 1320	10/25/2012 1600	RAD
Sodium	31	5.0		mg/L	1	10/18/2012 1320	11/01/2012 1127	RAD
Anions by Ion Chromatography-E300								
Chloride	3.8	1.0		mg/L	1	10/18/2012 1000	10/18/2012 1426	EW
Sulfate	ND	5.0		mg/L	1	10/18/2012 1000	10/18/2012 1426	EW
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP

Turner Laboratories, Inc.

Date: 12/03/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	MW #4
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 1220
Work Order:	12J0584	**Matrix:**	Ground Water
Lab Sample ID:	12J0584-01	**Order Name:**	MW 4

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Naphthalene	ND	0.00050		mg/L	1	10/31/2012 1020	10/31/2012 1533	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/30/2012 2335	KP
Surr: 1,2-Dichlorobenzene-d4	*88*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1533*	*KP*
Surr: 1,2-Dichlorobenzene-d4	*96*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2335*	*KP*
Surr: 4-Bromofluorobenzene	*95*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1533*	*KP*
Surr: 4-Bromofluorobenzene	*101*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/30/2012 2335*	*KP*

Organochlorine Pesticides-SW8081A

4,4´-DDD	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
4,4´-DDE	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
4,4´-DDT	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Aldrin	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
alpha-BHC	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
alpha-Chlordane	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
beta-BHC	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
delta-BHC	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Dieldrin	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Endosulfan I	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Endosulfan II	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD

Turner Laboratories, Inc.

Date: 12/03/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0584
Lab Sample ID: 12J0584-01

Client Sample ID: MW #4
Collection Date/Time: 10/17/2012 1220
Matrix: Ground Water
Order Name: MW 4

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Endosulfan sulfate	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Endrin	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Endrin aldehyde	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Endrin ketone	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
gamma-BHC	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
gamma-Chlordane	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Heptachlor	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Heptachlor epoxide	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Methoxychlor	ND	0.099		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Toxaphene	ND	0.99		ug/L	1	10/18/2012 1550	10/24/2012 1911	MD
Surr: Decachlorobiphenyl	*76*	*51.1-138.5*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1911*	*MD*
Surr: Tetrachloro-m-xylene	*64*	*39.1-120*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1911*	*MD*
Semivolatile Organic Compounds-SW8270C								
1,2,4-Trichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
1,2-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
1,3-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
1,4-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2,4,5-Trichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2,4,6-Trichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2,4-Dichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2,4-Dimethylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2,4-Dinitrophenol	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2,4-Dinitrotoluene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2,6-Dinitrotoluene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2-Chloronaphthalene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2-Chlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2-Methylnaphthalene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2-Methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2-Nitroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
2-Nitrophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
3,3´-Dichlorobenzidine	ND	20	V1	ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
3-Nitroaniline	ND	20	V1	ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
4,6-Dinitro-2-methylphenol	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
4-Bromophenyl phenyl ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
4-Chloro-3-methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
4-Chloroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
4-Chlorophenyl phenyl ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
4-Methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
4-Nitroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
4-Nitrophenol	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Acenaphthene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD

Turner Laboratories, Inc.

Date: 12/03/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0584
Lab Sample ID: 12J0584-01

Client Sample ID: MW #4
Collection Date/Time: 10/17/2012 1220
Matrix: Ground Water
Order Name: MW 4

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Acenaphthylene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Aniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Benzo[a]anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Benzo[a]pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Benzo[b,k]fluoranthene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Benzo[g,h,i]perylene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Benzoic acid	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Benzyl alcohol	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Bis(2-chloroethoxy)methane	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Bis(2-chloroethyl)ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Bis(2-chloroisopropyl)ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Bis(2-ethylhexyl)phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Butyl benzyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Chrysene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Dibenz[a,h]anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Dibenzofuran	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Diethyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Dimethyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Di-n-butyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Di-n-octyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Fluoranthene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Fluorene	ND	5.0	V1	ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Hexachlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Hexachlorobutadiene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Hexachlorocyclopentadiene	ND	9.9	V1	ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Hexachloroethane	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Indeno[1,2,3-cd]pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Isophorone	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Naphthalene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Nitrobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
N-Nitrosodimethylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
N-Nitrosodiphenylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
N-Nitrosodipropylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Pentachlorophenol	ND	30		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Phenanthrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Phenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 1938	MD
Surr: 2,4,6-Tribromophenol	*84*	*47.48-81.05*	*S4*	*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1938*	*MD*
Surr: 2-Fluorobiphenyl	*64*	*38.2-73.43*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1938*	*MD*
Surr: 2-Fluorophenol	*40*	*0-78.37*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1938*	*MD*
Surr: 4-Terphenyl-d14	*63*	*39.29-86.74*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1938*	*MD*

Turner Laboratories, Inc.

Date: 12/03/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	MW #4
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 1220
Work Order:	12J0584	**Matrix:**	Ground Water
Lab Sample ID:	12J0584-01	**Order Name:**	MW 4

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Surr: Nitrobenzene-d5	*61*	*34.79-78.71*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1938*	*MD*
Surr: Phenol-d6	*41*	*1.69-37.11*	*S4*	*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 1938*	*MD*

Turner Laboratories, Inc.

Date: 12/03/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	Trip Blank
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0000
Work Order:	12J0584	**Matrix:**	Trip Blank
Lab Sample ID:	12J0584-02	**Order Name:**	MW 4

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP

Turner Laboratories, Inc.

Date: 12/03/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	Trip Blank
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0000
Work Order:	12J0584	**Matrix:**	Trip Blank
Lab Sample ID:	12J0584-02	**Order Name:**	MW 4

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Naphthalene	ND	0.00050	N1	mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/31/2012 0005	KP
Surr: 1,2-Dichlorobenzene-d4	*98*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/31/2012 005*	*KP*
Surr: 4-Bromofluorobenzene	*101*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/31/2012 005*	*KP*

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210230 - E200.7										
Blank (1210230-BLK1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	ND	0.020	mg/L							
Sodium	ND	5.0	mg/L							
LCS (1210230-BS1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.47	0.020	mg/L	0.5000		95	85-115			
Sodium	11	5.0	mg/L	10.00		111	85-115			
LCS Dup (1210230-BSD1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.47	0.020	mg/L	0.5000		94	85-115	0.7	20	
Sodium	11	5.0	mg/L	10.00		110	85-115	1	20	
Matrix Spike (1210230-MS1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.53	0.020	mg/L	0.5000	0.066	93	70-130			
Sodium	41	5.0	mg/L	10.00	31	103	70-130			
Matrix Spike (1210230-MS2)		**Source: 12J0589-01**		Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.51	0.020	mg/L	0.5000	0.051	91	70-130			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Blank (1210206-BLK1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDD	ND	0.10	ug/L							
4,4´-DDE	ND	0.10	ug/L							
4,4´-DDT	ND	0.10	ug/L							
Aldrin	ND	0.10	ug/L							
alpha-BHC	ND	0.10	ug/L							
alpha-Chlordane	ND	0.10	ug/L							
beta-BHC	ND	0.10	ug/L							
delta-BHC	ND	0.10	ug/L							
Dieldrin	ND	0.10	ug/L							
Endosulfan I	ND	0.10	ug/L							
Endosulfan II	ND	0.10	ug/L							
Endosulfan sulfate	ND	0.10	ug/L							
Endrin	ND	0.10	ug/L							
Endrin aldehyde	ND	0.10	ug/L							
Endrin ketone	ND	0.10	ug/L							
gamma-BHC	ND	0.10	ug/L							
gamma-Chlordane	ND	0.10	ug/L							
Heptachlor	ND	0.10	ug/L							
Heptachlor epoxide	ND	0.10	ug/L							
Methoxychlor	ND	0.10	ug/L							
Toxaphene	ND	1.0	ug/L							
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			
Surrogate: Tetrachloro-m-xylene	*0.650*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS (1210206-BS1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.97	0.10	ug/L	1.000		97	57-116.5			
Aldrin	0.43	0.10	ug/L	0.5000		85	48.4-113.2			
Dieldrin	0.82	0.10	ug/L	1.000		82	53.2-117.5			
Endrin	0.91	0.10	ug/L	1.000		91	49.2-123.7			
gamma-BHC	0.43	0.10	ug/L	0.5000		86	58.9-127.4			
Heptachlor	0.42	0.10	ug/L	0.5000		83	48.1-120			
Surrogate: Decachlorobiphenyl	*0.775*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.652*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS Dup (1210206-BSD1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.96	0.10	ug/L	1.000		96	57-116.5	2	30	
Aldrin	0.42	0.10	ug/L	0.5000		84	48.4-113.2	1	30	
Dieldrin	0.80	0.10	ug/L	1.000		80	53.2-117.5	2	30	
Endrin	0.89	0.10	ug/L	1.000		89	49.2-123.7	2	30	
gamma-BHC	0.41	0.10	ug/L	0.5000		83	58.9-127.4	4	30	
Heptachlor	0.41	0.10	ug/L	0.5000		82	48.1-120	0.9	30	
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.670*		*ug/L*	*1.000*		*67*	*53.3-102.2*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Matrix Spike (1210206-MS1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4′-DDT	0.95	0.099	ug/L	0.9921	ND	96	16.5-164.5			
Aldrin	0.42	0.099	ug/L	0.4960	ND	85	20.7-143.6			
Dieldrin	0.80	0.099	ug/L	0.9921	ND	81	53.5-127.4			
Endrin	0.86	0.099	ug/L	0.9921	ND	87	52.9-133.2			
gamma-BHC	0.41	0.099	ug/L	0.4960	ND	82	51.9-134.6			
Heptachlor	0.41	0.099	ug/L	0.4960	ND	83	32.7-141.3			
Surrogate: Decachlorobiphenyl	*0.757*		*ug/L*	*0.9921*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.666*		*ug/L*	*0.9921*		*67*	*39.1-120*			
Matrix Spike Dup (1210206-MSD1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4′-DDT	0.93	0.098	ug/L	0.9814	ND	95	16.5-164.5	2	30	
Aldrin	0.41	0.098	ug/L	0.4907	ND	83	20.7-143.6	3	30	
Dieldrin	0.78	0.098	ug/L	0.9814	ND	80	53.5-127.4	2	30	
Endrin	0.87	0.098	ug/L	0.9814	ND	89	52.9-133.2	0.9	30	
gamma-BHC	0.40	0.098	ug/L	0.4907	ND	82	51.9-134.6	1	30	
Heptachlor	0.40	0.098	ug/L	0.4907	ND	82	32.7-141.3	3	30	
Surrogate: Decachlorobiphenyl	*0.742*		*ug/L*	*0.9814*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.633*		*ug/L*	*0.9814*		*65*	*39.1-120*			
Batch 1210225 - SW8270C										

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Blank (1210225-BLK1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	ND	10	ug/L							
1,2-Dichlorobenzene	ND	10	ug/L							
1,3-Dichlorobenzene	ND	10	ug/L							
1,4-Dichlorobenzene	ND	10	ug/L							
2,4,5-Trichlorophenol	ND	10	ug/L							
2,4,6-Trichlorophenol	ND	10	ug/L							
2,4-Dichlorophenol	ND	10	ug/L							
2,4-Dimethylphenol	ND	10	ug/L							
2,4-Dinitrophenol	ND	50	ug/L							
2,4-Dinitrotoluene	ND	10	ug/L							
2,6-Dinitrotoluene	ND	10	ug/L							
2-Chloronaphthalene	ND	10	ug/L							
2-Chlorophenol	ND	10	ug/L							
2-Methylnaphthalene	ND	5.0	ug/L							
2-Methylphenol	ND	10	ug/L							
2-Nitroaniline	ND	20	ug/L							
2-Nitrophenol	ND	10	ug/L							
3,3´-Dichlorobenzidine	ND	20	ug/L							
3-Nitroaniline	ND	20	ug/L							
4,6-Dinitro-2-methylphenol	ND	20	ug/L							
4-Bromophenyl phenyl ether	ND	10	ug/L							
4-Chloro-3-methylphenol	ND	10	ug/L							
4-Chloroaniline	ND	20	ug/L							
4-Chlorophenyl phenyl ether	ND	10	ug/L							
4-Methylphenol	ND	10	ug/L							
4-Nitroaniline	ND	20	ug/L							
4-Nitrophenol	ND	50	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Aniline	ND	20	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo[a]anthracene	ND	5.0	ug/L							
Benzo[a]pyrene	ND	5.0	ug/L							
Benzo[b,k]fluoranthene	ND	10	ug/L							
Benzo[g,h,i]perylene	ND	5.0	ug/L							
Benzoic acid	ND	50	ug/L							
Benzyl alcohol	ND	5.0	ug/L							
Bis(2-chloroethoxy)methane	ND	10	ug/L							
Bis(2-chloroethyl)ether	ND	10	ug/L							
Bis(2-chloroisopropyl)ether	ND	10	ug/L							
Bis(2-ethylhexyl)phthalate	ND	10	ug/L							
Butyl benzyl phthalate	ND	10	ug/L							
Chrysene	ND	5.0	ug/L							
Dibenz[a,h]anthracene	ND	5.0	ug/L							
Dibenzofuran	ND	5.0	ug/L							
Diethyl phthalate	ND	10	ug/L							
Dimethyl phthalate	ND	10	ug/L							
Di-n-butyl phthalate	ND	10	ug/L							

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Blank (1210225-BLK1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
Di-n-octyl phthalate	ND	10	ug/L							
Fluoranthene	ND	5.0	ug/L							
Fluorene	ND	5.0	ug/L							
Hexachlorobenzene	ND	10	ug/L							
Hexachlorobutadiene	ND	10	ug/L							
Hexachlorocyclopentadiene	ND	10	ug/L							
Hexachloroethane	ND	10	ug/L							
Indeno[1,2,3-cd]pyrene	ND	5.0	ug/L							
Isophorone	ND	10	ug/L							
Naphthalene	ND	5.0	ug/L							
Nitrobenzene	ND	10	ug/L							
N-Nitrosodimethylamine	ND	10	ug/L							
N-Nitrosodiphenylamine	ND	10	ug/L							
N-Nitrosodipropylamine	ND	10	ug/L							
Pentachlorophenol	ND	30	ug/L							
Phenanthrene	ND	5.0	ug/L							
Phenol	ND	10	ug/L							
Pyrene	ND	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*85.9*		*ug/L*	*100.0*		*86*	*48.18-103.25*			*S4*
Surrogate: 2-Fluorobiphenyl	*68.6*		*ug/L*	*100.0*		*69*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*43.0*		*ug/L*	*100.0*		*43*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*63.6*		*ug/L*	*100.0*		*64*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*65.9*		*ug/L*	*100.0*		*66*	*23.73-103.28*			
Surrogate: Phenol-d6	*44.4*		*ug/L*	*100.0*		*44*	*17.76-99.38*			
LCS (1210225-BS1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	30	10	ug/L	50.00		60	44.61-96.97			
1,4-Dichlorobenzene	23	10	ug/L	50.00		46	34.76-84.41			
2,4-Dinitrotoluene	29	10	ug/L	50.00		57	53.41-93.7			
2-Chlorophenol	54	10	ug/L	100.0		54	24.48-90.36			
4-Chloro-3-methylphenol	58	10	ug/L	100.0		58	35.71-98.42			
4-Nitrophenol	52	50	ug/L	100.0		52	29.09-97.75			
Acenaphthene	28	5.0	ug/L	50.00		56	45.55-93.72			
N-Nitrosodipropylamine	31	10	ug/L	50.00		62	36.51-113.8			
Pentachlorophenol	73	30	ug/L	100.0		73	56.81-93.77			
Phenol	33	10	ug/L	100.0		33	25.83-92.79			
Pyrene	31	5.0	ug/L	50.00		63	46.41-100.1			
Surrogate: 2,4,6-Tribromophenol	*78.2*		*ug/L*	*100.0*		*78*	*50.03-106.09*			
Surrogate: 2-Fluorobiphenyl	*56.6*		*ug/L*	*100.0*		*57*	*48.56-92.49*			
Surrogate: 2-Fluorophenol	*32.4*		*ug/L*	*100.0*		*32*	*0-75.67*			
Surrogate: 4-Terphenyl-d14	*54.8*		*ug/L*	*100.0*		*55*	*46-86.35*			
Surrogate: Nitrobenzene-d5	*57.0*		*ug/L*	*100.0*		*57*	*39.5-94.5*			
Surrogate: Phenol-d6	*30.3*		*ug/L*	*100.0*		*30*	*32.72-92.61*			*S6*

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
LCS Dup (1210225-BSD1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	39	10	ug/L	50.00		77	44.61-96.97	25	30	L1
1,4-Dichlorobenzene	30	10	ug/L	50.00		60	34.76-84.41	27	30	
2,4-Dinitrotoluene	36	10	ug/L	50.00		71	53.41-93.7	22	30	
2-Chlorophenol	65	10	ug/L	100.0		65	24.48-90.36	19	30	
4-Chloro-3-methylphenol	68	10	ug/L	100.0		68	35.71-98.42	16	30	
4-Nitrophenol	64	50	ug/L	100.0		64	29.09-97.75	22	30	
Acenaphthene	35	5.0	ug/L	50.00		69	45.55-93.72	20	30	
N-Nitrosodipropylamine	38	10	ug/L	50.00		77	36.51-113.8	22	30	
Pentachlorophenol	84	30	ug/L	100.0		84	56.81-93.77	15	30	L1
Phenol	38	10	ug/L	100.0		38	25.83-92.79	16	30	
Pyrene	36	5.0	ug/L	50.00		71	46.41-100.1	13	30	
Surrogate: 2,4,6-Tribromophenol	*97.7*		*ug/L*	*100.0*		*98*	*50.03-106.09*			*S4*
Surrogate: 2-Fluorobiphenyl	*67.7*		*ug/L*	*100.0*		*68*	*48.56-92.49*			
Surrogate: 2-Fluorophenol	*37.9*		*ug/L*	*100.0*		*38*	*17.64-75.67*			
Surrogate: 4-Terphenyl-d14	*66.5*		*ug/L*	*100.0*		*67*	*46-86.35*			
Surrogate: Nitrobenzene-d5	*70.2*		*ug/L*	*100.0*		*70*	*39.5-94.5*			
Surrogate: Phenol-d6	*36.6*		*ug/L*	*100.0*		*37*	*32.72-92.61*			
Matrix Spike (1210225-MS1)		**Source: 12J0584-01**		Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	39	10	ug/L	49.90	ND	78	26.12-109.76			
1,4-Dichlorobenzene	28	10	ug/L	49.90	ND	57	23.67-90			
2,4-Dinitrotoluene	33	10	ug/L	49.90	ND	67	42.38-99.06			
2-Chlorophenol	65	10	ug/L	99.80	ND	66	13.58-96.61			
4-Chloro-3-methylphenol	69	10	ug/L	99.80	ND	70	34.59-92.25			
4-Nitrophenol	55	50	ug/L	99.80	ND	55	20.75-109.23			
Acenaphthene	33	5.0	ug/L	49.90	ND	67	24.45-105.5			
N-Nitrosodipropylamine	37	10	ug/L	49.90	ND	75	14.35-130.03			
Pentachlorophenol	72	30	ug/L	99.80	ND	73	43.33-101.64			
Phenol	51	10	ug/L	99.80	ND	51	22.94-95			
Pyrene	34	5.0	ug/L	49.90	ND	69	25.28-106.05			
Surrogate: 2,4,6-Tribromophenol	*90.9*		*ug/L*	*99.80*		*91*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*65.8*		*ug/L*	*99.80*		*66*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*44.2*		*ug/L*	*99.80*		*44*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*63.1*		*ug/L*	*99.80*		*63*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*73.0*		*ug/L*	*99.80*		*73*	*23.73-103.28*			
Surrogate: Phenol-d6	*51.0*		*ug/L*	*99.80*		*51*	*17.76-99.38*			

Client: University of Arizona- Risk Management Services
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Matrix Spike Dup (1210225-MSD1)		**Source: 12J0584-01**		Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	38	10	ug/L	50.20	ND	75	26.12-109.76	3	30	
1,4-Dichlorobenzene	29	10	ug/L	50.20	ND	57	23.67-90	1	30	
2,4-Dinitrotoluene	34	10	ug/L	50.20	ND	68	42.38-99.06	2	30	
2-Chlorophenol	67	10	ug/L	100.4	ND	67	13.58-96.61	2	30	
4-Chloro-3-methylphenol	70	10	ug/L	100.4	ND	70	34.59-92.25	1	30	
4-Nitrophenol	63	50	ug/L	100.4	ND	63	20.75-109.23	15	30	
Acenaphthene	34	5.0	ug/L	50.20	ND	68	24.45-105.5	3	30	
N-Nitrosodipropylamine	38	10	ug/L	50.20	ND	76	14.35-130.03	3	30	
Pentachlorophenol	86	30	ug/L	100.4	ND	86	43.33-101.64	17	30	
Phenol	51	10	ug/L	100.4	ND	50	22.94-95	0.2	30	
Pyrene	36	5.0	ug/L	50.20	ND	73	25.28-106.05	6	30	
Surrogate: 2,4,6-Tribromophenol	*97.8*		*ug/L*	*100.4*		*97*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*69.9*		*ug/L*	*100.4*		*70*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*48.9*		*ug/L*	*100.4*		*49*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*66.6*		*ug/L*	*100.4*		*66*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*72.6*		*ug/L*	*100.4*		*72*	*23.73-103.28*			
Surrogate: Phenol-d6	*50.5*		*ug/L*	*100.4*		*50*	*17.76-99.38*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,1-Trichloroethane	ND	0.00050	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,2-Trichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethene	ND	0.00050	mg/L							
1,1-Dichloropropene	ND	0.00050	mg/L							
1,2,3-Trichlorobenzene	ND	0.00050	mg/L							
1,2,3-Trichloropropane	ND	0.00050	mg/L							
1,2,4-Trichlorobenzene	ND	0.00050	mg/L							
1,2,4-Trimethylbenzene	ND	0.00050	mg/L							
1,2-Dichlorobenzene	ND	0.00050	mg/L							
1,2-Dichloroethane	ND	0.00050	mg/L							
1,2-Dichloropropane	ND	0.00050	mg/L							
1,3,5-Trimethylbenzene	ND	0.00050	mg/L							
1,3-Dichlorobenzene	ND	0.00050	mg/L							
1,3-Dichloropropane	ND	0.00050	mg/L							
1,4-Dichlorobenzene	ND	0.00050	mg/L							
2,2-Dichloropropane	ND	0.00050	mg/L							
2-Chlorotoluene	ND	0.00050	mg/L							
4-Chlorotoluene	ND	0.00050	mg/L							
4-Isopropyltoluene	ND	0.00050	mg/L							
Benzene	ND	0.00050	mg/L							
Bromobenzene	ND	0.00050	mg/L							
Bromochloromethane	ND	0.00050	mg/L							
Bromodichloromethane	ND	0.00050	mg/L							
Bromoform	ND	0.00050	mg/L							
Bromomethane	ND	0.00050	mg/L							
Carbon tetrachloride	ND	0.00050	mg/L							
Chlorobenzene	ND	0.00050	mg/L							
Chloroethane	ND	0.00050	mg/L							
Chloroform	ND	0.00050	mg/L							
Chloromethane	ND	0.00050	mg/L							
cis-1,2-Dichloroethene	ND	0.00050	mg/L							
cis-1,3-Dichloropropene	ND	0.00050	mg/L							
Dibromochloromethane	ND	0.00050	mg/L							
Dibromomethane	ND	0.00050	mg/L							
Dichlorodifluoromethane	ND	0.00050	mg/L							
Ethylbenzene	ND	0.00050	mg/L							
Hexachlorobutadiene	ND	0.00050	mg/L							
Isopropylbenzene	ND	0.00050	mg/L							
Methylene chloride	ND	0.00050	mg/L							
Naphthalene	ND	0.00050	mg/L							
n-Butylbenzene	ND	0.00050	mg/L							
n-Propylbenzene	ND	0.00050	mg/L							
sec-Butylbenzene	ND	0.00050	mg/L							
Styrene	ND	0.00050	mg/L							
tert-Butylbenzene	ND	0.00050	mg/L							

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
Tetrachloroethene	ND	0.00050	mg/L							
Toluene	ND	0.00050	mg/L							
trans-1,2-Dichloroethene	ND	0.00050	mg/L							
trans-1,3-Dichloropropene	ND	0.00050	mg/L							
Trichloroethene	ND	0.00050	mg/L							
Trichlorofluoromethane	ND	0.00050	mg/L							
TTHMs	ND	0.00050	mg/L							
Vinyl chloride	ND	0.00050	mg/L							
Xylenes, Total	ND	0.0015	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.95*		*ug/L*	*1.000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.96*		*ug/L*	*1.000*		*96*	*70-130*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,1-Trichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,1,2-Trichloroethane	0.010	0.00050	mg/L	0.01000		105	70-130			
1,1-Dichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130			
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130			
1,3,5-Trimethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,4-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		102	70-130			
2-Chlorotoluene	0.010	0.00050	mg/L	0.01000		104	70-130			
4-Chlorotoluene	0.010	0.00050	mg/L	0.01000		105	70-130			
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		105	70-130			
Benzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Bromobenzene	0.011	0.00050	mg/L	0.01000		106	70-130			
Bromochloromethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Bromodichloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Bromoform	0.011	0.00050	mg/L	0.01000		107	70-130			
Bromomethane	0.012	0.00050	mg/L	0.01000		122	70-130			
Carbon tetrachloride	0.010	0.00050	mg/L	0.01000		105	70-130			
Chlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Chloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloroform	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloromethane	0.010	0.00050	mg/L	0.01000		100	70-130			
cis-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		103	70-130			
cis-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromochloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromomethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Dichlorodifluoromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Ethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		108	70-130			
Isopropylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		106	0-200			
Methylene chloride	0.010	0.00050	mg/L	0.01000		102	70-130			
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130			R6
n-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
n-Propylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
sec-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Styrene	0.011	0.00050	mg/L	0.01000		106	70-130			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Toluene	0.010	0.00050	mg/L	0.01000		104	70-130			
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		102	70-130			
trans-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Trichloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130			
TTHMs	0.042	0.00050	mg/L				70-130			
Vinyl chloride	0.010	0.00050	mg/L	0.01000		104	70-130			
Xylenes, Total	0.031	0.0015	mg/L	0.03000		105	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			

Client: University of Arizona- Risk Management Services
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		107	70-130	4	20	
1,1,1-Trichloroethane	0.011	0.00050	mg/L	0.01000		105	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		110	70-130	4	20	
1,1,2-Trichloroethane	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,1-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,1-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		108	70-130	2	20	
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		111	70-130	6	20	
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130	0.8	20	
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
1,2-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,2-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	1	20	
1,3,5-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,3-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,4-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	5	20	
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		103	70-130	0.9	20	
2-Chlorotoluene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
4-Chlorotoluene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Benzene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Bromobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Bromochloromethane	0.011	0.00050	mg/L	0.01000		111	70-130	5	20	
Bromodichloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Bromoform	0.011	0.00050	mg/L	0.01000		108	70-130	0.9	20	
Bromomethane	0.012	0.00050	mg/L	0.01000		118	70-130	4	20	
Carbon tetrachloride	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Chlorobenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Chloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
Chloroform	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Chloromethane	0.010	0.00050	mg/L	0.01000		103	70-130	3	20	
cis-1,2-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
cis-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	1	20	
Dibromochloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Dibromomethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Dichlorodifluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Ethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		111	70-130	2	20	
Isopropylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		108	0-200	1	200	
Methylene chloride	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
Naphthalene	0.012	0.00050	mg/L	0.01000		120	70-130	22	20	R6
n-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
n-Propylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
sec-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Styrene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	

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Project: Page Ranch
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Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Toluene	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
trans-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
Trichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		110	70-130	3	20	
TTHMs	0.043	0.00050	mg/L				70-130	3	20	
Vinyl chloride	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Xylenes, Total	0.033	0.0015	mg/L	0.03000		108	70-130	3	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.1*		*ug/L*	*1.000*		*106*	*70-130*			
Batch 1210328 - EPA 524.2										
Blank (1210328-BLK1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	ND	0.00050	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.90*		*ug/L*	*1.000*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.94*		*ug/L*	*1.000*		*94*	*70-130*			
LCS (1210328-BS1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0088	0.00050	mg/L	0.01000		88	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
LCS Dup (1210328-BSD1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130	9	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*100*	*70-130*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0584
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210190 - E300										
Blank (1210190-BLK1)				Prepared & Analyzed: 10/18/2012						
Chloride	ND	1.0	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1210190-BS1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		96	90-110			
Sulfate	13	5.0	mg/L	12.50		100	90-110			
LCS Dup (1210190-BSD1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		97	90-110	0.08	10	
Sulfate	12	5.0	mg/L	12.50		100	90-110	0.5	10	
Matrix Spike (1210190-MS2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120			
Sulfate	14	5.0	mg/L	12.50	2.2	95	80-120			
Matrix Spike Dup (1210190-MSD2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120	0.04	10	
Sulfate	14	5.0	mg/L	12.50	2.2	94	80-120	0.5	10	

SPIKE

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1210584 DATE 10/17/12 PAGE 1 OF 1

PROJECT NAME Page Ranch #
CONTACT NAME Lloyd Wundrock
COMPANY NAME UA Risk Management
ADDRESS PO Box 210300, Tucson, AZ 85721
PHONE 621-1590 FAX 621-3706
SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Base Neutrals 625/8270	Acids	Volatile Organics 624/624.2/8260	TTHMS	HAA5	Pesticides 8081	PCB's 8082	NO_2	NO_3	TKN	Oil and Grease Grav. 1664A	VOA	TCLP Analysis Semi-VOA	Pest.	TCLP	Metals Dissolved	Total	RCRA8	Total	Cyanide Amen.	WAD	SDWA-INORGANICS PRIMARY	SECONDARY	MPN	Coliform Coliform	pH	Cr_6	COD	Cl_2	TSS	BOD	200.7 Metals	300.0 Anions			
MW #4	10/17/12	12:20		GW	12	X	X		X																											X	X			

1. RELINQUISHED BY:
Signature
Printed Name Lloyd Wundrock
Firm UA
Date/Time 10-17-2012/1200

2. RECEIVED BY:
Signature
Printed Name
Firm UA
Date/Time 10/17/12 1:00

TURNAROUND REQUIREMENTS:
- [x] Standard (approx. 10 days)*
- [ ] Next Day [ ] 2 Day [ ] 5 Day*
- [ ] Email Preliminary Results To:

* Working Days

REPORT REQUIREMENTS:
- [ ] I. Routine Report
- [ ] II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
- [x] III. Date Validation Report (Includes All Raw Data) Add 10% to invoice

INVOICE INFORMATION:
Account [ ] Y [ ] N
P.O. #
Bill to:

SAMPLE RECEIPT:
Total Containers 12
Temperature 3.1
[ ] Wet Ice [ ] Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm UA
Date/Time 10/17/12 1:25

4. RECEIVED BY:
Signature
Printed Name Stephen Lowe
Firm TURNER LABORATORIES, INC.
Date/Time 10.17.12 1425

* LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis: [ ] Yes [ ] No	Custody Seals [ ]	Preservation Confirmation [ ]
ADEQ Forms: [ ] Yes [ ] No	Container Intact [ ]	Appropriate Head Space [ ]
Mail ADEQ Forms: [ ] Yes [ ] No	COC / Labels Agree [ ]	Received Within Hold Time [ ]

Metals-Mn, Na Anions-Cl, SO4 QA/QC Level III Package
Hard Copy Report/Writable CD Send Report to ADEQ electronically

November 30, 2012

Jeff Christensen
University of Arizona- Risk Management Services
PO Box 210300, RM A414
Tucson, AZ 85721

TEL (520) 621-5861
FAX (520) 621-3706

Work Order No.: 12J0585
Order Name: MW 5

RE: Page Ranch

Dear Jeff Christensen,

Turner Laboratories, Inc. received 2 sample(s) on 10/17/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Servic
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

Order: MW 5

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12J0585-01	MW #5	Ground Water	10/17/2012 0916
12J0585-02	Trip Blank	Trip Blank	10/17/2012 0000

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

Case Narrative

The naphthalene recovery in the closing CCV was below detection limits. Since sample 12J0585-02 is a trip blank. There is insufficient sample volume available for re-analysis.

L1	The associated LCS/LCSD recovery was above laboratory acceptance limits.
N1	See case narrative.
R6	LCS/LCSD RPD exceeded the method acceptance limit. Recovery met the acceptance criteria.
S4	Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
S6	Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0585
Lab Sample ID: 12J0585-01

Client Sample ID: MW #5
Collection Date/Time: 10/17/2012 0916
Matrix: Ground Water
Order Name: MW 5

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
ICP Total Metals-E200.7								
Manganese	0.10	0.020		mg/L	1	10/18/2012 1320	10/25/2012 1749	RAD
Sodium	31	5.0		mg/L	1	10/18/2012 1320	11/01/2012 1201	RAD
Anions by Ion Chromatography-E300								
Chloride	6.5	1.0		mg/L	1	10/18/2012 1000	10/18/2012 1445	EW
Sulfate	ND	5.0		mg/L	1	10/18/2012 1000	10/18/2012 1445	EW
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0585
Lab Sample ID: 12J0585-01

Client Sample ID: MW #5
Collection Date/Time: 10/17/2012 0916
Matrix: Ground Water
Order Name: MW 5

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Naphthalene	ND	0.00050		mg/L	1	10/31/2012 1020	10/31/2012 1604	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/31/2012 0036	KP
Surr: 1,2-Dichlorobenzene-d4	*94*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1604*	*KP*
Surr: 1,2-Dichlorobenzene-d4	*93*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/31/2012 036*	*KP*
Surr: 4-Bromofluorobenzene	*100*	*70-130*		*%REC*	*1*	*10/31/2012 1020*	*10/31/2012 1604*	*KP*
Surr: 4-Bromofluorobenzene	*98*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/31/2012 036*	*KP*

Organochlorine Pesticides-SW8081A

4,4´-DDD	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
4,4´-DDE	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
4,4´-DDT	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Aldrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
alpha-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
alpha-Chlordane	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
beta-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
delta-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Dieldrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Endosulfan I	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Endosulfan II	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0585
Lab Sample ID: 12J0585-01
Client Sample ID: MW #5
Collection Date/Time: 10/17/2012 0916
Matrix: Ground Water
Order Name: MW 5

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Endosulfan sulfate	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Endrin	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Endrin aldehyde	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Endrin ketone	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
gamma-BHC	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
gamma-Chlordane	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Heptachlor	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Heptachlor epoxide	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Methoxychlor	ND	0.10		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Toxaphene	ND	1.0		ug/L	1	10/18/2012 1550	10/24/2012 1937	MD
Surr: Decachlorobiphenyl	*75*	*51.1-138.5*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1937*	*MD*
Surr: Tetrachloro-m-xylene	*66*	*39.1-120*		*%REC*	*1*	*10/18/2012 1550*	*10/24/2012 1937*	*MD*
Semivolatile Organic Compounds-SW8270C								
1,2,4-Trichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
1,2-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
1,3-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
1,4-Dichlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2,4,5-Trichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2,4,6-Trichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2,4-Dichlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2,4-Dimethylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2,4-Dinitrophenol	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2,4-Dinitrotoluene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2,6-Dinitrotoluene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2-Chloronaphthalene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2-Chlorophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2-Methylnaphthalene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2-Methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2-Nitroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
2-Nitrophenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
3,3´-Dichlorobenzidine	ND	20	V1	ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
3-Nitroaniline	ND	20	V1	ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
4,6-Dinitro-2-methylphenol	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
4-Bromophenyl phenyl ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
4-Chloro-3-methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
4-Chloroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
4-Chlorophenyl phenyl ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
4-Methylphenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
4-Nitroaniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
4-Nitrophenol	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Acenaphthene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0585
Lab Sample ID: 12J0585-01

Client Sample ID: MW #5
Collection Date/Time: 10/17/2012 0916
Matrix: Ground Water
Order Name: MW 5

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Acenaphthylene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Aniline	ND	20		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Benzo[a]anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Benzo[a]pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Benzo[b,k]fluoranthene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Benzo[g,h,i]perylene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Benzoic acid	ND	50		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Benzyl alcohol	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Bis(2-chloroethoxy)methane	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Bis(2-chloroethyl)ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Bis(2-chloroisopropyl)ether	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Bis(2-ethylhexyl)phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Butyl benzyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Chrysene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Dibenz[a,h]anthracene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Dibenzofuran	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Diethyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Dimethyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Di-n-butyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Di-n-octyl phthalate	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Fluoranthene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Fluorene	ND	5.0	V1	ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Hexachlorobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Hexachlorobutadiene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Hexachlorocyclopentadiene	ND	9.9	V1	ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Hexachloroethane	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Indeno[1,2,3-cd]pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Isophorone	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Naphthalene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Nitrobenzene	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
N-Nitrosodimethylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
N-Nitrosodiphenylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
N-Nitrosodipropylamine	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Pentachlorophenol	ND	30		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Phenanthrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Phenol	ND	9.9		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Pyrene	ND	5.0		ug/L	1	10/22/2012 0847	11/06/2012 2013	MD
Surr: 2,4,6-Tribromophenol	*92*	*47.48-81.05*	*S4*	*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 2013*	*MD*
Surr: 2-Fluorobiphenyl	*68*	*38.2-73.43*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 2013*	*MD*
Surr: 2-Fluorophenol	*46*	*0-78.37*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 2013*	*MD*
Surr: 4-Terphenyl-d14	*71*	*39.29-86.74*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 2013*	*MD*

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	MW #5
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0916
Work Order:	12J0585	**Matrix:**	Ground Water
Lab Sample ID:	12J0585-01	**Order Name:**	MW 5

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Surr: Nitrobenzene-d5	*68*	*34.79-78.71*		*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 2013*	*MD*
Surr: Phenol-d6	*51*	*1.69-37.11*	*S4*	*%REC*	*1*	*10/22/2012 0847*	*11/06/2012 2013*	*MD*

Turner Laboratories, Inc.

Date: 11/30/2012

Client: University of Arizona- Risk Management Se
Project: Page Ranch
Work Order: 12J0585
Lab Sample ID: 12J0585-02

Client Sample ID: Trip Blank
Collection Date/Time: 10/17/2012 0000
Matrix: Trip Blank
Order Name: MW 5

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Volatile Organic Compounds by GC/MS-EPA 524.2								
1,1,1,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,1,1-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,1,2,2-Tetrachloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,1,2-Trichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,1-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,1-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,1-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,2,3-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,2,3-Trichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,2,4-Trichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,2,4-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,2-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,2-Dichloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,3,5-Trimethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,3-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,3-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
1,4-Dichlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
2,2-Dichloropropane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
2-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
4-Chlorotoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
4-Isopropyltoluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Benzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Bromobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Bromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Bromodichloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Bromoform	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Bromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Carbon tetrachloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Chlorobenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Chloroethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Chloroform	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Chloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
cis-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
cis-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Dibromochloromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Dibromomethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Dichlorodifluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Ethylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Hexachlorobutadiene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Isopropylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP

Turner Laboratories, Inc.

Date: 11/30/2012

Client:	University of Arizona- Risk Management Se	**Client Sample ID:**	Trip Blank
Project:	Page Ranch	**Collection Date/Time:**	10/17/2012 0000
Work Order:	12J0585	**Matrix:**	Trip Blank
Lab Sample ID:	12J0585-02	**Order Name:**	MW 5

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Methylene chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Naphthalene	ND	0.00050	N1	mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
n-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
n-Propylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
sec-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Styrene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
tert-Butylbenzene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Tetrachloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Toluene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
trans-1,2-Dichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
trans-1,3-Dichloropropene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Trichloroethene	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Trichlorofluoromethane	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
TTHMs	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Vinyl chloride	ND	0.00050		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Xylenes, Total	ND	0.0015		mg/L	1	10/30/2012 1736	10/31/2012 0107	KP
Surr: 1,2-Dichlorobenzene-d4	*94*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/31/2012 107*	*KP*
Surr: 4-Bromofluorobenzene	*101*	*70-130*		*%REC*	*1*	*10/30/2012 1736*	*10/31/2012 107*	*KP*

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210230 - E200.7										
Blank (1210230-BLK1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	ND	0.020	mg/L							
Sodium	ND	5.0	mg/L							
LCS (1210230-BS1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.47	0.020	mg/L	0.5000		95	85-115			
Sodium	11	5.0	mg/L	10.00		111	85-115			
LCS Dup (1210230-BSD1)				Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.47	0.020	mg/L	0.5000		94	85-115	0.7	20	
Sodium	11	5.0	mg/L	10.00		110	85-115	1	20	
Matrix Spike (1210230-MS1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.53	0.020	mg/L	0.5000	0.066	93	70-130			
Sodium	41	5.0	mg/L	10.00	31	103	70-130			
Matrix Spike (1210230-MS2)		**Source: 12J0589-01**		Prepared: 10/18/2012 Analyzed: 10/25/2012						
Manganese	0.51	0.020	mg/L	0.5000	0.051	91	70-130			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Blank (1210206-BLK1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDD	ND	0.10	ug/L							
4,4´-DDE	ND	0.10	ug/L							
4,4´-DDT	ND	0.10	ug/L							
Aldrin	ND	0.10	ug/L							
alpha-BHC	ND	0.10	ug/L							
alpha-Chlordane	ND	0.10	ug/L							
beta-BHC	ND	0.10	ug/L							
delta-BHC	ND	0.10	ug/L							
Dieldrin	ND	0.10	ug/L							
Endosulfan I	ND	0.10	ug/L							
Endosulfan II	ND	0.10	ug/L							
Endosulfan sulfate	ND	0.10	ug/L							
Endrin	ND	0.10	ug/L							
Endrin aldehyde	ND	0.10	ug/L							
Endrin ketone	ND	0.10	ug/L							
gamma-BHC	ND	0.10	ug/L							
gamma-Chlordane	ND	0.10	ug/L							
Heptachlor	ND	0.10	ug/L							
Heptachlor epoxide	ND	0.10	ug/L							
Methoxychlor	ND	0.10	ug/L							
Toxaphene	ND	1.0	ug/L							
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			
Surrogate: Tetrachloro-m-xylene	*0.650*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS (1210206-BS1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.97	0.10	ug/L	1.000		97	57-116.5			
Aldrin	0.43	0.10	ug/L	0.5000		85	48.4-113.2			
Dieldrin	0.82	0.10	ug/L	1.000		82	53.2-117.5			
Endrin	0.91	0.10	ug/L	1.000		91	49.2-123.7			
gamma-BHC	0.43	0.10	ug/L	0.5000		86	58.9-127.4			
Heptachlor	0.42	0.10	ug/L	0.5000		83	48.1-120			
Surrogate: Decachlorobiphenyl	*0.775*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.652*		*ug/L*	*1.000*		*65*	*37.1-110.6*			
LCS Dup (1210206-BSD1)				Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.96	0.10	ug/L	1.000		96	57-116.5	2	30	
Aldrin	0.42	0.10	ug/L	0.5000		84	48.4-113.2	1	30	
Dieldrin	0.80	0.10	ug/L	1.000		80	53.2-117.5	2	30	
Endrin	0.89	0.10	ug/L	1.000		89	49.2-123.7	2	30	
gamma-BHC	0.41	0.10	ug/L	0.5000		83	58.9-127.4	4	30	
Heptachlor	0.41	0.10	ug/L	0.5000		82	48.1-120	0.9	30	
Surrogate: Decachlorobiphenyl	*0.773*		*ug/L*	*1.000*		*77*	*51.6-128.7*			*N1*
Surrogate: Tetrachloro-m-xylene	*0.670*		*ug/L*	*1.000*		*67*	*53.3-102.2*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210206 - SW8081A										
Matrix Spike (1210206-MS1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.95	0.099	ug/L	0.9921	ND	96	16.5-164.5			
Aldrin	0.42	0.099	ug/L	0.4960	ND	85	20.7-143.6			
Dieldrin	0.80	0.099	ug/L	0.9921	ND	81	53.5-127.4			
Endrin	0.86	0.099	ug/L	0.9921	ND	87	52.9-133.2			
gamma-BHC	0.41	0.099	ug/L	0.4960	ND	82	51.9-134.6			
Heptachlor	0.41	0.099	ug/L	0.4960	ND	83	32.7-141.3			
Surrogate: Decachlorobiphenyl	*0.757*		*ug/L*	*0.9921*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.666*		*ug/L*	*0.9921*		*67*	*39.1-120*			
Matrix Spike Dup (1210206-MSD1)		**Source: 12J0584-01**		Prepared: 10/18/2012 Analyzed: 10/24/2012						
4,4´-DDT	0.93	0.098	ug/L	0.9814	ND	95	16.5-164.5	2	30	
Aldrin	0.41	0.098	ug/L	0.4907	ND	83	20.7-143.6	3	30	
Dieldrin	0.78	0.098	ug/L	0.9814	ND	80	53.5-127.4	2	30	
Endrin	0.87	0.098	ug/L	0.9814	ND	89	52.9-133.2	0.9	30	
gamma-BHC	0.40	0.098	ug/L	0.4907	ND	82	51.9-134.6	1	30	
Heptachlor	0.40	0.098	ug/L	0.4907	ND	82	32.7-141.3	3	30	
Surrogate: Decachlorobiphenyl	*0.742*		*ug/L*	*0.9814*		*76*	*51.1-138.5*			
Surrogate: Tetrachloro-m-xylene	*0.633*		*ug/L*	*0.9814*		*65*	*39.1-120*			
Batch 1210225 - SW8270C										

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Blank (1210225-BLK1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	ND	10	ug/L							
1,2-Dichlorobenzene	ND	10	ug/L							
1,3-Dichlorobenzene	ND	10	ug/L							
1,4-Dichlorobenzene	ND	10	ug/L							
2,4,5-Trichlorophenol	ND	10	ug/L							
2,4,6-Trichlorophenol	ND	10	ug/L							
2,4-Dichlorophenol	ND	10	ug/L							
2,4-Dimethylphenol	ND	10	ug/L							
2,4-Dinitrophenol	ND	50	ug/L							
2,4-Dinitrotoluene	ND	10	ug/L							
2,6-Dinitrotoluene	ND	10	ug/L							
2-Chloronaphthalene	ND	10	ug/L							
2-Chlorophenol	ND	10	ug/L							
2-Methylnaphthalene	ND	5.0	ug/L							
2-Methylphenol	ND	10	ug/L							
2-Nitroaniline	ND	20	ug/L							
2-Nitrophenol	ND	10	ug/L							
3,3´-Dichlorobenzidine	ND	20	ug/L							
3-Nitroaniline	ND	20	ug/L							
4,6-Dinitro-2-methylphenol	ND	20	ug/L							
4-Bromophenyl phenyl ether	ND	10	ug/L							
4-Chloro-3-methylphenol	ND	10	ug/L							
4-Chloroaniline	ND	20	ug/L							
4-Chlorophenyl phenyl ether	ND	10	ug/L							
4-Methylphenol	ND	10	ug/L							
4-Nitroaniline	ND	20	ug/L							
4-Nitrophenol	ND	50	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Aniline	ND	20	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo[a]anthracene	ND	5.0	ug/L							
Benzo[a]pyrene	ND	5.0	ug/L							
Benzo[b,k]fluoranthene	ND	10	ug/L							
Benzo[g,h,i]perylene	ND	5.0	ug/L							
Benzoic acid	ND	50	ug/L							
Benzyl alcohol	ND	5.0	ug/L							
Bis(2-chloroethoxy)methane	ND	10	ug/L							
Bis(2-chloroethyl)ether	ND	10	ug/L							
Bis(2-chloroisopropyl)ether	ND	10	ug/L							
Bis(2-ethylhexyl)phthalate	ND	10	ug/L							
Butyl benzyl phthalate	ND	10	ug/L							
Chrysene	ND	5.0	ug/L							
Dibenz[a,h]anthracene	ND	5.0	ug/L							
Dibenzofuran	ND	5.0	ug/L							
Diethyl phthalate	ND	10	ug/L							
Dimethyl phthalate	ND	10	ug/L							
Di-n-butyl phthalate	ND	10	ug/L							

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Blank (1210225-BLK1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
Di-n-octyl phthalate	ND	10	ug/L							
Fluoranthene	ND	5.0	ug/L							
Fluorene	ND	5.0	ug/L							
Hexachlorobenzene	ND	10	ug/L							
Hexachlorobutadiene	ND	10	ug/L							
Hexachlorocyclopentadiene	ND	10	ug/L							
Hexachloroethane	ND	10	ug/L							
Indeno[1,2,3-cd]pyrene	ND	5.0	ug/L							
Isophorone	ND	10	ug/L							
Naphthalene	ND	5.0	ug/L							
Nitrobenzene	ND	10	ug/L							
N-Nitrosodimethylamine	ND	10	ug/L							
N-Nitrosodiphenylamine	ND	10	ug/L							
N-Nitrosodipropylamine	ND	10	ug/L							
Pentachlorophenol	ND	30	ug/L							
Phenanthrene	ND	5.0	ug/L							
Phenol	ND	10	ug/L							
Pyrene	ND	5.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*85.9*		*ug/L*	*100.0*		*86*	*48.18-103.25*			*S4*
Surrogate: 2-Fluorobiphenyl	*68.6*		*ug/L*	*100.0*		*69*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*43.0*		*ug/L*	*100.0*		*43*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*63.6*		*ug/L*	*100.0*		*64*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*65.9*		*ug/L*	*100.0*		*66*	*23.73-103.28*			
Surrogate: Phenol-d6	*44.4*		*ug/L*	*100.0*		*44*	*17.76-99.38*			
LCS (1210225-BS1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	30	10	ug/L	50.00		60	44.61-96.97			
1,4-Dichlorobenzene	23	10	ug/L	50.00		46	34.76-84.41			
2,4-Dinitrotoluene	29	10	ug/L	50.00		57	53.41-93.7			
2-Chlorophenol	54	10	ug/L	100.0		54	24.48-90.36			
4-Chloro-3-methylphenol	58	10	ug/L	100.0		58	35.71-98.42			
4-Nitrophenol	52	50	ug/L	100.0		52	29.09-97.75			
Acenaphthene	28	5.0	ug/L	50.00		56	45.55-93.72			
N-Nitrosodipropylamine	31	10	ug/L	50.00		62	36.51-113.8			
Pentachlorophenol	73	30	ug/L	100.0		73	56.81-93.77			
Phenol	33	10	ug/L	100.0		33	25.83-92.79			
Pyrene	31	5.0	ug/L	50.00		63	46.41-100.1			
Surrogate: 2,4,6-Tribromophenol	*78.2*		*ug/L*	*100.0*		*78*	*50.03-106.09*			
Surrogate: 2-Fluorobiphenyl	*56.6*		*ug/L*	*100.0*		*57*	*48.56-92.49*			
Surrogate: 2-Fluorophenol	*32.4*		*ug/L*	*100.0*		*32*	*0-75.67*			
Surrogate: 4-Terphenyl-d14	*54.8*		*ug/L*	*100.0*		*55*	*46-86.35*			
Surrogate: Nitrobenzene-d5	*57.0*		*ug/L*	*100.0*		*57*	*39.5-94.5*			
Surrogate: Phenol-d6	*30.3*		*ug/L*	*100.0*		*30*	*32.72-92.61*			*S6*

Client: University of Arizona- Risk Management Services
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
LCS Dup (1210225-BSD1)				Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	39	10	ug/L	50.00		77	44.61-96.97	25	30	L1
1,4-Dichlorobenzene	30	10	ug/L	50.00		60	34.76-84.41	27	30	
2,4-Dinitrotoluene	36	10	ug/L	50.00		71	53.41-93.7	22	30	
2-Chlorophenol	65	10	ug/L	100.0		65	24.48-90.36	19	30	
4-Chloro-3-methylphenol	68	10	ug/L	100.0		68	35.71-98.42	16	30	
4-Nitrophenol	64	50	ug/L	100.0		64	29.09-97.75	22	30	
Acenaphthene	35	5.0	ug/L	50.00		69	45.55-93.72	20	30	
N-Nitrosodipropylamine	38	10	ug/L	50.00		77	36.51-113.8	22	30	
Pentachlorophenol	84	30	ug/L	100.0		84	56.81-93.77	15	30	L1
Phenol	38	10	ug/L	100.0		38	25.83-92.79	16	30	
Pyrene	36	5.0	ug/L	50.00		71	46.41-100.1	13	30	
Surrogate: 2,4,6-Tribromophenol	*97.7*		*ug/L*	*100.0*		*98*	*50.03-106.09*			*S4*
Surrogate: 2-Fluorobiphenyl	*67.7*		*ug/L*	*100.0*		*68*	*48.56-92.49*			
Surrogate: 2-Fluorophenol	*37.9*		*ug/L*	*100.0*		*38*	*17.64-75.67*			
Surrogate: 4-Terphenyl-d14	*66.5*		*ug/L*	*100.0*		*67*	*46-86.35*			
Surrogate: Nitrobenzene-d5	*70.2*		*ug/L*	*100.0*		*70*	*39.5-94.5*			
Surrogate: Phenol-d6	*36.6*		*ug/L*	*100.0*		*37*	*32.72-92.61*			
Matrix Spike (1210225-MS1)		**Source: 12J0584-01**		Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	39	10	ug/L	49.90	ND	78	26.12-109.76			
1,4-Dichlorobenzene	28	10	ug/L	49.90	ND	57	23.67-90			
2,4-Dinitrotoluene	33	10	ug/L	49.90	ND	67	42.38-99.06			
2-Chlorophenol	65	10	ug/L	99.80	ND	66	13.58-96.61			
4-Chloro-3-methylphenol	69	10	ug/L	99.80	ND	70	34.59-92.25			
4-Nitrophenol	55	50	ug/L	99.80	ND	55	20.75-109.23			
Acenaphthene	33	5.0	ug/L	49.90	ND	67	24.45-105.5			
N-Nitrosodipropylamine	37	10	ug/L	49.90	ND	75	14.35-130.03			
Pentachlorophenol	72	30	ug/L	99.80	ND	73	43.33-101.64			
Phenol	51	10	ug/L	99.80	ND	51	22.94-95			
Pyrene	34	5.0	ug/L	49.90	ND	69	25.28-106.05			
Surrogate: 2,4,6-Tribromophenol	*90.9*		*ug/L*	*99.80*		*91*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*65.8*		*ug/L*	*99.80*		*66*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*44.2*		*ug/L*	*99.80*		*44*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*63.1*		*ug/L*	*99.80*		*63*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*73.0*		*ug/L*	*99.80*		*73*	*23.73-103.28*			
Surrogate: Phenol-d6	*51.0*		*ug/L*	*99.80*		*51*	*17.76-99.38*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210225 - SW8270C										
Matrix Spike Dup (1210225-MSD1)		**Source: 12J0584-01**		Prepared: 10/22/2012 Analyzed: 11/06/2012						
1,2,4-Trichlorobenzene	38	10	ug/L	50.20	ND	75	26.12-109.76	3	30	
1,4-Dichlorobenzene	29	10	ug/L	50.20	ND	57	23.67-90	1	30	
2,4-Dinitrotoluene	34	10	ug/L	50.20	ND	68	42.38-99.06	2	30	
2-Chlorophenol	67	10	ug/L	100.4	ND	67	13.58-96.61	2	30	
4-Chloro-3-methylphenol	70	10	ug/L	100.4	ND	70	34.59-92.25	1	30	
4-Nitrophenol	63	50	ug/L	100.4	ND	63	20.75-109.23	15	30	
Acenaphthene	34	5.0	ug/L	50.20	ND	68	24.45-105.5	3	30	
N-Nitrosodipropylamine	38	10	ug/L	50.20	ND	76	14.35-130.03	3	30	
Pentachlorophenol	86	30	ug/L	100.4	ND	86	43.33-101.64	17	30	
Phenol	51	10	ug/L	100.4	ND	50	22.94-95	0.2	30	
Pyrene	36	5.0	ug/L	50.20	ND	73	25.28-106.05	6	30	
Surrogate: 2,4,6-Tribromophenol	*97.8*		*ug/L*	*100.4*		*97*	*48.18-103.25*			
Surrogate: 2-Fluorobiphenyl	*69.9*		*ug/L*	*100.4*		*70*	*44.86-97.28*			
Surrogate: 2-Fluorophenol	*48.9*		*ug/L*	*100.4*		*49*	*17.76-99.38*			
Surrogate: 4-Terphenyl-d14	*66.6*		*ug/L*	*100.4*		*66*	*38.67-92.68*			
Surrogate: Nitrobenzene-d5	*72.6*		*ug/L*	*100.4*		*72*	*23.73-103.28*			
Surrogate: Phenol-d6	*50.5*		*ug/L*	*100.4*		*50*	*17.76-99.38*			

Client: University of Arizona- Risk Management Services
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,1-Trichloroethane	ND	0.00050	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.00050	mg/L							
1,1,2-Trichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethane	ND	0.00050	mg/L							
1,1-Dichloroethene	ND	0.00050	mg/L							
1,1-Dichloropropene	ND	0.00050	mg/L							
1,2,3-Trichlorobenzene	ND	0.00050	mg/L							
1,2,3-Trichloropropane	ND	0.00050	mg/L							
1,2,4-Trichlorobenzene	ND	0.00050	mg/L							
1,2,4-Trimethylbenzene	ND	0.00050	mg/L							
1,2-Dichlorobenzene	ND	0.00050	mg/L							
1,2-Dichloroethane	ND	0.00050	mg/L							
1,2-Dichloropropane	ND	0.00050	mg/L							
1,3,5-Trimethylbenzene	ND	0.00050	mg/L							
1,3-Dichlorobenzene	ND	0.00050	mg/L							
1,3-Dichloropropane	ND	0.00050	mg/L							
1,4-Dichlorobenzene	ND	0.00050	mg/L							
2,2-Dichloropropane	ND	0.00050	mg/L							
2-Chlorotoluene	ND	0.00050	mg/L							
4-Chlorotoluene	ND	0.00050	mg/L							
4-Isopropyltoluene	ND	0.00050	mg/L							
Benzene	ND	0.00050	mg/L							
Bromobenzene	ND	0.00050	mg/L							
Bromochloromethane	ND	0.00050	mg/L							
Bromodichloromethane	ND	0.00050	mg/L							
Bromoform	ND	0.00050	mg/L							
Bromomethane	ND	0.00050	mg/L							
Carbon tetrachloride	ND	0.00050	mg/L							
Chlorobenzene	ND	0.00050	mg/L							
Chloroethane	ND	0.00050	mg/L							
Chloroform	ND	0.00050	mg/L							
Chloromethane	ND	0.00050	mg/L							
cis-1,2-Dichloroethene	ND	0.00050	mg/L							
cis-1,3-Dichloropropene	ND	0.00050	mg/L							
Dibromochloromethane	ND	0.00050	mg/L							
Dibromomethane	ND	0.00050	mg/L							
Dichlorodifluoromethane	ND	0.00050	mg/L							
Ethylbenzene	ND	0.00050	mg/L							
Hexachlorobutadiene	ND	0.00050	mg/L							
Isopropylbenzene	ND	0.00050	mg/L							
Methylene chloride	ND	0.00050	mg/L							
Naphthalene	ND	0.00050	mg/L							
n-Butylbenzene	ND	0.00050	mg/L							
n-Propylbenzene	ND	0.00050	mg/L							
sec-Butylbenzene	ND	0.00050	mg/L							
Styrene	ND	0.00050	mg/L							
tert-Butylbenzene	ND	0.00050	mg/L							

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
Blank (1210312-BLK1)				Prepared & Analyzed: 10/30/2012						
Tetrachloroethene	ND	0.00050	mg/L							
Toluene	ND	0.00050	mg/L							
trans-1,2-Dichloroethene	ND	0.00050	mg/L							
trans-1,3-Dichloropropene	ND	0.00050	mg/L							
Trichloroethene	ND	0.00050	mg/L							
Trichlorofluoromethane	ND	0.00050	mg/L							
TTHMs	ND	0.00050	mg/L							
Vinyl chloride	ND	0.00050	mg/L							
Xylenes, Total	ND	0.0015	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.95*		*ug/L*	*1.000*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.96*		*ug/L*	*1.000*		*96*	*70-130*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,1-Trichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,1,2-Trichloroethane	0.010	0.00050	mg/L	0.01000		105	70-130			
1,1-Dichloroethane	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130			
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130			
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,2-Dichloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130			
1,3,5-Trimethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		105	70-130			
1,4-Dichlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		102	70-130			
2-Chlorotoluene	0.010	0.00050	mg/L	0.01000		104	70-130			
4-Chlorotoluene	0.010	0.00050	mg/L	0.01000		105	70-130			
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		105	70-130			
Benzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Bromobenzene	0.011	0.00050	mg/L	0.01000		106	70-130			
Bromochloromethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Bromodichloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Bromoform	0.011	0.00050	mg/L	0.01000		107	70-130			
Bromomethane	0.012	0.00050	mg/L	0.01000		122	70-130			
Carbon tetrachloride	0.010	0.00050	mg/L	0.01000		105	70-130			
Chlorobenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Chloroethane	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloroform	0.010	0.00050	mg/L	0.01000		103	70-130			
Chloromethane	0.010	0.00050	mg/L	0.01000		100	70-130			
cis-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		103	70-130			
cis-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromochloromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Dibromomethane	0.011	0.00050	mg/L	0.01000		105	70-130			
Dichlorodifluoromethane	0.010	0.00050	mg/L	0.01000		104	70-130			
Ethylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		108	70-130			
Isopropylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		106	0-200			
Methylene chloride	0.010	0.00050	mg/L	0.01000		102	70-130			
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130			R6
n-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
n-Propylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
sec-Butylbenzene	0.010	0.00050	mg/L	0.01000		104	70-130			
Styrene	0.011	0.00050	mg/L	0.01000		106	70-130			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS (1210312-BS1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.010	0.00050	mg/L	0.01000		105	70-130			
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Toluene	0.010	0.00050	mg/L	0.01000		104	70-130			
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		102	70-130			
trans-1,3-Dichloropropene	0.010	0.00050	mg/L	0.01000		104	70-130			
Trichloroethene	0.011	0.00050	mg/L	0.01000		105	70-130			
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130			
TTHMs	0.042	0.00050	mg/L				70-130			
Vinyl chloride	0.010	0.00050	mg/L	0.01000		104	70-130			
Xylenes, Total	0.031	0.0015	mg/L	0.03000		105	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
1,1,1,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		107	70-130	4	20	
1,1,1-Trichloroethane	0.011	0.00050	mg/L	0.01000		105	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.011	0.00050	mg/L	0.01000		110	70-130	4	20	
1,1,2-Trichloroethane	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,1-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,1-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
1,1-Dichloropropene	0.011	0.00050	mg/L	0.01000		108	70-130	2	20	
1,2,3-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		111	70-130	6	20	
1,2,3-Trichloropropane	0.011	0.00050	mg/L	0.01000		106	70-130	0.8	20	
1,2,4-Trichlorobenzene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	
1,2,4-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
1,2-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,2-Dichloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
1,2-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	1	20	
1,3,5-Trimethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,3-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
1,3-Dichloropropane	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
1,4-Dichlorobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	5	20	
2,2-Dichloropropane	0.010	0.00050	mg/L	0.01000		103	70-130	0.9	20	
2-Chlorotoluene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
4-Chlorotoluene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
4-Isopropyltoluene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Benzene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Bromobenzene	0.011	0.00050	mg/L	0.01000		109	70-130	3	20	
Bromochloromethane	0.011	0.00050	mg/L	0.01000		111	70-130	5	20	
Bromodichloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Bromoform	0.011	0.00050	mg/L	0.01000		108	70-130	0.9	20	
Bromomethane	0.012	0.00050	mg/L	0.01000		118	70-130	4	20	
Carbon tetrachloride	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Chlorobenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Chloroethane	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
Chloroform	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Chloromethane	0.010	0.00050	mg/L	0.01000		103	70-130	3	20	
cis-1,2-Dichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
cis-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	1	20	
Dibromochloromethane	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Dibromomethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Dichlorodifluoromethane	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Ethylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Hexachlorobutadiene	0.011	0.00050	mg/L	0.01000		111	70-130	2	20	
Isopropylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
Methyl tert-Butyl Ether (MTBE)	0.011	0.00050	mg/L	0.01000		108	0-200	1	200	
Methylene chloride	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
Naphthalene	0.012	0.00050	mg/L	0.01000		120	70-130	22	20	R6
n-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	4	20	
n-Propylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
sec-Butylbenzene	0.011	0.00050	mg/L	0.01000		108	70-130	3	20	
Styrene	0.011	0.00050	mg/L	0.01000		112	70-130	6	20	

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210312 - EPA 524.2										
LCS Dup (1210312-BSD1)				Prepared & Analyzed: 10/30/2012						
tert-Butylbenzene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Tetrachloroethene	0.011	0.00050	mg/L	0.01000		109	70-130	4	20	
Toluene	0.011	0.00050	mg/L	0.01000		106	70-130	3	20	
trans-1,2-Dichloroethene	0.010	0.00050	mg/L	0.01000		104	70-130	2	20	
trans-1,3-Dichloropropene	0.011	0.00050	mg/L	0.01000		106	70-130	2	20	
Trichloroethene	0.011	0.00050	mg/L	0.01000		107	70-130	2	20	
Trichlorofluoromethane	0.011	0.00050	mg/L	0.01000		110	70-130	3	20	
TTHMs	0.043	0.00050	mg/L				70-130	3	20	
Vinyl chloride	0.011	0.00050	mg/L	0.01000		107	70-130	3	20	
Xylenes, Total	0.033	0.0015	mg/L	0.03000		108	70-130	3	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.1*		*ug/L*	*1.000*		*106*	*70-130*			
Batch 1210328 - EPA 524.2										
Blank (1210328-BLK1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	ND	0.00050	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.90*		*ug/L*	*1.000*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.94*		*ug/L*	*1.000*		*94*	*70-130*			
LCS (1210328-BS1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0088	0.00050	mg/L	0.01000		88	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*102*	*70-130*			
LCS Dup (1210328-BSD1)				Prepared & Analyzed: 10/31/2012						
Naphthalene	0.0096	0.00050	mg/L	0.01000		96	70-130	9	20	
Surrogate: 1,2-Dichlorobenzene-d4	*1.0*		*ug/L*	*1.000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.0*		*ug/L*	*1.000*		*100*	*70-130*			

Client: University of Arizona- Risk Management Services
Project: Page Ranch
Work Order: 12J0585
Date Received: 10/17/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1210190 - E300										
Blank (1210190-BLK1)				Prepared & Analyzed: 10/18/2012						
Chloride	ND	1.0	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1210190-BS1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		96	90-110			
Sulfate	13	5.0	mg/L	12.50		100	90-110			
LCS Dup (1210190-BSD1)				Prepared & Analyzed: 10/18/2012						
Chloride	12	1.0	mg/L	12.50		97	90-110	0.08	10	
Sulfate	12	5.0	mg/L	12.50		100	90-110	0.5	10	
Matrix Spike (1210190-MS2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120			
Sulfate	14	5.0	mg/L	12.50	2.2	95	80-120			
Matrix Spike Dup (1210190-MSD2)	**Source: 12J0584-01**			Prepared & Analyzed: 10/18/2012						
Chloride	16	1.0	mg/L	12.50	3.8	98	80-120	0.04	10	
Sulfate	14	5.0	mg/L	12.50	2.2	94	80-120	0.5	10	

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1200565 DATE 10/17/12 PAGE 1 OF 1

PROJECT NAME Page Ranch #
CONTACT NAME Lloyd Wundrock
COMPANY NAME UA Risk Management
ADDRESS PO Box 210300, Tucson, AZ 85721
PHONE 621-1590 FAX 621-3706
SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Base Neutrals 625/8270	Acids	Volatile Organics 624/524.2/8260	TTHMS	HAA5	Pesticides 8081	PCB's 8082	NO_2	NO_3	TKN	Oil and Grease Grav. 1664A	VOA	TCLP Analysis Semi-VOA	Pest.	Metals TCLP	Total	Dissolved	RCRA8	Cyanide Total	Amen.	WAD	SDWA-INORGANICS PRIMARY	SECONDARY	MPN	Coliform	pH	Collect	Cl_2	Cl	COD	TSS	BOD	200.7 Metals	300.0 Anions			
MW #5	10/17/12	0916		GW	12	X	X			X																											X	X			

1. RELINQUISHED BY: Signature; Printed Name Lloyd Wundrock; Firm UA; Date/Time 10-17-2012/1300 hrs
2. RECEIVED BY: Signature; Printed Name; Firm; Date/Time 10/17/12 1300
3. RELINQUISHED BY: Signature; Printed Name; Firm; Date/Time 10/17/12 1425
4. RECEIVED BY: Signature; Printed Name; Firm TURNER LABORATORIES, INC.; Date/Time 10-17-12 1425

TURNAROUND REQUIREMENTS:
- [x] Standard (approx. 10 days)*
- [ ] Next Day [ ] 2 Day [ ] 5 Day*
- [ ] Email Preliminary Results To:

* Working Days

REPORT REQUIREMENTS:
- [ ] I. Routine Report
- [ ] II. Report (includes DUP, MS, MSD, as required, may be charged as samples)
- [x] III. Date Validation Report (Includes All Raw Data) Add 10% to invoice

INVOICE INFORMATION:
Account [ ] Y [ ] N
P.O. #
Bill to:

SAMPLE RECEIPT:
Total Containers 12
Temperature 3.1
[x] Wet Ice [ ] Blue Ice

* LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:
Compliance Analysis: [ ] Yes [ ] No
ADEQ Forms: [ ] Yes [ ] No
Mail ADEQ Forms: [ ] Yes [ ] No
Custody Seals [ ]
Container Intact [ ]
COC / Labels Agree [ ]
Preservation Confirmation [ ]
Appropriate Head Space [ ]
Received Within Hold Time [ ]

Metals-Mn, Na Anions-Cl, SO4 QA/QC Level III Package
Hard Copy Report/Writable CD Send Report to ADEQ electronically

ORGANIC DATA ASSESSMENT SUMMARY

Project Information			
Project Name:	PTRL	Lab Name:	Turner Laboratories, Inc.
Project Number:	1420112030	Lab Report Number:	12J0581 through 12J0585
Reviewer's Signature:	Crystal Neirby	Number of Samples:	4 primary, 1 field duplicate, 5 trip blanks
Review Date:	December 28, 2012	Matrix:	groundwater

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:	Total Mn and Fe	Anions	Organochlorine Pesticides	SVOCs	VOCs
Method Number:	EPA 200.7	EPA 300.0	EPA 8081A	EPA 8270C	EPA 524.2
1. Preservation/hold times	O	O	O	O	O
2. Blanks	O	O	O	O	X (1)
3. Surrogates	NA	NA	O	X (3) X (4)	O
4. Matrix spike/dup	O	O	O	O	O
5. Lab QC samples	O	O	O	O	X (2)
6. Overall assessment	O	O	O	O	O

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

NA = Not applicable

Assessment Code	Description	Action Required
X (1)	Naphthalene was detected in the trip blank associated with MW-1.	Naphthalene was not detected in the associated sample; so results are not affected and are not qualified.
X (2)	The VOC LCS/LCSD RPD for naphthalene associated with MW-1, MW-2, and MW-5 was 22 percent, greater than the control limit of 20 percent.	The individual LCS and LCSD recoveries were acceptable; therefore, results are not affected and are not qualified.
X (3)	The recovery of surrogate phenol-d6 in the SVOC LCS associated with MW-1, MW-3, MW-4, and MW-5 was below the control limits.	The individual LCS recoveries were acceptable; therefore, results are not affected and are not qualified.
X (4)	The recoveries of SVOCs surrogate 2,4,6-tribromophenol in the blank, LCS, and LCSD, as well as phenol-d6 in the blank associated with MW-2 were greater than the control limits.	The blank was free of contamination; sample results are not affected and are not qualified.

Notes: 1. Total Fe and Mn = Total iron and manganese

Attachment 7 – Post-Closure Inspection and Maintenance/Repair Reports (CD only)

INSPECTION REPORT

PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Month/Day/Year of Inspection: 06/28/2012 Time: 0913

Inspector's Name/Title: (print) LLOYD M. WUNDROCK / ESO

Inspector's Signature: Lloyd M. Wundrock

Inspection Procedure:

To properly inspect the facility, the Inspector must walk around the perimeter, noting any specific evidence of deterioration. The Inspector must then enter and walk the length and width of the enclosed landfill area. All inspection items listed below and on the reverse of this form must be completed.

INSPECTION ITEMS	YES	NO
ACCESS ROADS		
1. Is the condition of UA-owned roads used to access the site and those within the facility adequate to allow access by emergency vehicles?	X	
2. Is there excessive vegetation on facility access roads?		X
PERIMETER FENCING AND SIGNS		
1. Are the fences in good condition, free of fabric holes, downed fencing, bent poles, and digging under the fence base?	X	
2. Were all gates/locks closed upon arrival?	X	
2. Are all fence gates/locks operating properly?	X	
4. Is there excessive vegetation present around entrance gates?		X
5. Are all signs legible?	X	
FINAL COVER		
1. Are there any signs of integrity problems with the Unit A and Unit B final covers?		X
2. Is there any woody vegetation growth?		X

	YES	NO
3. Does vegetation density/height support inspection and maintenance activity?	X	
DRAINAGE STRUCTURES		
1. Are there any signs of drainage structure integrity problems?		X
2. Are drainage structures at the site clear of any blockage from debris and/or excessive vegetation?	X	
3. Are metal gates intact and locked?	X	
SURVEY MONUMENTS		
1. Are survey monuments damaged?		X
2. Are there any signs of survey monument tampering?		X
GROUNDWATER MONITORING WELLS		
Are all monitoring well enclosures intact and secured?	X	
1. Is the concrete pad of each monitoring well intact and free of deterioration?	X	
3. Are groundwater samples being collected during this inspection?		X
If **YES**, complete the following:		
4. Does each well pumping assembly operate properly?		
5. Are all sounding tubes clear?		

If groundwater samples are collected during this inspection, use Groundwater Sampling Log, which is included in the Groundwater Detection Monitoring Plan, to record all monitoring information.

MAINTENANCE/REPAIR REPORT

PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Name/Title: (print) LLOYD M. WUNDROCK / ESO

Signature: Lloyd M. Wundrock

06-28-2012

Instructions:
Describe below the nature of the inspection deficiency and the action taken to correct the item. If the item represents a deficiency noted during a previous that has not been corrected, explain the reason for the corrective action delay.

	DEFICIENCY	ACTION TAKEN	DATE
04-18-2012	DIGGING UNDER	PLACE CONCRETE	06-22-
	FENCE	PARKING BLOCK	2012
		AT AREA ALONG	
		SOUTH PERIMETER	
		FENCE	
04-18-2012	WOODY SPECIES	ALL 22 SEEDLING	06-22-
		MESQUITE TREES	2012
		CUT AND STUBS	
		TREATED W/ROUND-UP	

Comments:

THESE ACTIONS CARRIED OUT BY

FM PERSONNEL

LMW

INSPECTION REPORT

PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Month/Day/Year of Inspection: 07/06/2012 Time: 0952

Inspector's Name/Title: (print) LLOYD M. WUNDRUCK / ESO

Inspector's Signature: Lloyd M. Wundruck

Inspection Procedure:

To properly inspect the facility, the Inspector must walk around the perimeter, noting any specific evidence of deterioration. The Inspector must then enter and walk the length and width of the enclosed landfill area. All inspection items listed below and on the reverse of this form must be completed.

INSPECTION ITEMS	YES	NO
ACCESS ROADS		
1. Is the condition of UA-owned roads used to access the site and those within the facility adequate to allow access by emergency vehicles?	X	
2. Is there excessive vegetation on facility access roads?		X
PERIMETER FENCING AND SIGNS		
1. Are the fences in good condition, free of fabric holes, downed fencing, bent poles, and digging under the fence base?	X	
2. Were all gates/locks closed upon arrival?	X	
2. Are all fence gates/locks operating properly?	X	
4. Is there excessive vegetation present around entrance gates?		X
5. Are all signs legible?	X	
FINAL COVER		
1. Are there any signs of integrity problems with the Unit A and Unit B final covers?		X
2. Is there any woody vegetation growth?		X

INSPECTION ITEMS	YES	NO
3. Does vegetation density/height support inspection and maintenance activity?	X	
DRAINAGE STRUCTURES		
1. Are there any signs of drainage structure integrity problems?		X
2. Are drainage structures at the site clear of any blockage from debris and/or excessive vegetation?	X	
3. Are metal gates intact and locked?	X	
SURVEY MONUMENTS		
1. Are survey monuments damaged?		X
2. Are there any signs of survey monument tampering?		X
GROUNDWATER MONITORING WELLS		
Are all monitoring well enclosures intact and secured?	X	
1. Is the concrete pad of each monitoring well intact and free of deterioration?	X	
3. Are groundwater samples being collected during this inspection?		X
If **YES**, complete the following:		
4. Does each well pumping assembly operate properly?		
5. Are all sounding tubes clear?		

If groundwater samples are collected during this inspection, use Groundwater Sampling Log, which is included in the Groundwater Detection Monitoring Plan, to record all monitoring information.

INSPECTION REPORT
PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Month/Day/Year of Inspection: 08/16/2012 - Time: 0643

Inspector's Name/Title: (print) LLOYD M. WUNDROCK/ESO

Inspector's Signature: L M Wundrock

Inspection Procedure:

To properly inspect the facility, the Inspector must walk around the perimeter, noting any specific evidence of deterioration. The Inspector must then enter and walk the length and width of the enclosed landfill area. All inspection items listed below and on the reverse of this form must be completed.

INSPECTION ITEMS	YES	NO
ACCESS ROADS		
1. Is the condition of UA-owned roads used to access the site and those within the facility adequate to allow access by emergency vehicles?	X	
2. Is there excessive vegetation on facility access roads?		X
PERIMETER FENCING AND SIGNS		
1. Are the fences in good condition, free of fabric holes, downed fencing, bent poles, and digging under the fence base?	X	
2. Were all gates/locks closed upon arrival?	X	
2. Are all fence gates/locks operating properly?	X	
4. Is there excessive vegetation present around entrance gates?		X
5. Are all signs legible?	X	

1.

3.

3. PURCHASED 4' OF NEW STRAC CHAIN FOR EAST GATE OF PTRL SITE

	YES	NO
FINAL COVER		
1. Are there any signs of integrity problems with the Unit A and Unit B final covers?		X
2. Is there any woody vegetation growth?		X
3. Does vegetation density/height support inspection and maintenance activity?		X
DRAINAGE STRUCTURES		
1. Are there any signs of drainage structure integrity problems?		X
2. Are drainage structures at the site clear of any blockage from debris and/or excessive vegetation?	X	
SURVEY MONUMENTS		
1. Are survey monuments damaged?		X
2. Are there any signs of survey monument tampering?		X
GROUNDWATER MONITORING WELLS		
Are all monitoring well enclosures intact and secured?	X	
1. Is the concrete pad of each monitoring well intact and free of deterioration?	X	
3. Are groundwater samples being collected during this inspection?		X
If **YES**, complete the following:		
4. Does each well pumping assembly operate properly?		
5. Are all sounding tubes clear?		

2.

If groundwater samples are collected during this inspection, use **Groundwater Sampling Log** to record all monitoring information.

1. WILL CALL FOR ANOTHER LOAD OF STONE (CRUSHED) OF A GRADE MORE COARSE THAN THE LAST ROAD REPAIR.
2. WILL CALL TIM FOR A BRUSHHOG JOB BETWEEN OCTOBER 1–14th.

MAINTENANCE/REPAIR REPORT
PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Name/Title: (print) _____

Signature: _____

Instructions:

Describe below the nature of the inspection deficiency and the action taken to correct the item. If the item represents a deficiency noted during a previous that has not been corrected, explain the reason for the corrective action delay.

DEFICIENCY	ACTION TAKEN	DATE

Comments:

_____

_____

_____

_____

INSPECTION REPORT
PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Month/Day/Year of Inspection: 09-06-2012 Time: 0853

Inspector's Name/Title: (print) LLOYD M. WUNDROCK / ESO

Inspector's Signature: Lloyd M. Wundrock

Inspection Procedure:

To properly inspect the facility, the Inspector must walk around the perimeter, noting any specific evidence of deterioration. The Inspector must then enter and walk the length and width of the enclosed landfill area. All inspection items listed below and on the reverse of this form must be completed.

INSPECTION ITEMS	YES	NO
ACCESS ROADS		
1. Is the condition of UA-owned roads used to access the site and those within the facility adequate to allow access by emergency vehicles?	X	
2. Is there excessive vegetation on facility access roads?		X
PERIMETER FENCING AND SIGNS		
1. Are the fences in good condition, free of fabric holes, downed fencing, bent poles, and digging under the fence base?	X	
2. Were all gates/locks closed upon arrival?	X	
2. Are all fence gates/locks operating properly?	X	
4. Is there excessive vegetation present around entrance gates?		X
5. Are all signs legible?	X	

	YES	NO
FINAL COVER		
1. Are there any signs of integrity problems with the Unit A and Unit B final covers?		X
2. Is there any woody vegetation growth?		X
1. 3. Does vegetation density/height support inspection and maintenance activity?		X
DRAINAGE STRUCTURES		
1. Are there any signs of drainage structure integrity problems?		X
2. Are drainage structures at the site clear of any blockage from debris and/or excessive vegetation?	X	
SURVEY MONUMENTS		
1. Are survey monuments damaged?		X
2. Are there any signs of survey monument tampering?		X
GROUNDWATER MONITORING WELLS		
Are all monitoring well enclosures intact and secured?	X	
1. Is the concrete pad of each monitoring well intact and free of deterioration?	X	
3. Are groundwater samples being collected during this inspection?		X
If YES, complete the following:		
4. Does each well pumping assembly operate properly?		
5. Are all sounding tubes clear?		

If groundwater samples are collected during this inspection, use **Groundwater Sampling Log** to record all monitoring information.

MAINTENANCE/REPAIR REPORT
PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Name/Title: (print) LLOYD M. WUNDROCK / ESO

Signature: Lloyd M. Wundrock

Instructions:

Describe below the nature of the inspection deficiency and the action taken to correct the item. If the item represents a deficiency noted during a previous that has not been corrected, explain the reason for the corrective action delay.

DEFICIENCY	ACTION TAKEN	DATE
1. GRASS GROWTH		
PERIMETER		
	I'M WILL "BRUSH	
	HOG" PERIMETER	
	DURING THE WEEK	
	OF SEPT. 17TH	

Comments:

INSPECTION REPORT
PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Month/Day/Year of Inspection: 12/18/2012 - Time: 0845

Inspector's Name/Title: (print) LLOYD M. WUNDROCK / ESO

Inspector's Signature: Lloyd M. Wundrock

Inspection Procedure:

To properly inspect the facility, the Inspector must walk around the perimeter, noting any specific evidence of deterioration. The Inspector must then enter and walk the length and width of the enclosed landfill area. All inspection items listed below and on the reverse of this form must be completed.

INSPECTION ITEMS	YES	NO
ACCESS ROADS		
1. Is the condition of UA-owned roads used to access the site and those within the facility adequate to allow access by emergency vehicles?	X	
2. Is there excessive vegetation on facility access roads?		X
PERIMETER FENCING AND SIGNS		
1. Are the fences in good condition, free of fabric holes, downed fencing, bent poles, and digging under the fence base?	X	
2. Were all gates/locks closed upon arrival?	X	
2. Are all fence gates/locks operating properly?	X	
4. Is there excessive vegetation present around entrance gates?		X
5. Are all signs legible?	X	

	YES	NO
FINAL COVER		
1. Are there any signs of integrity problems with the Unit A and Unit B final covers?		X
2. Is there any woody vegetation growth?		X
3. Does vegetation density/height support inspection and maintenance activity?	X	
DRAINAGE STRUCTURES		
1. Are there any signs of drainage structure integrity problems?		X
2. Are drainage structures at the site clear of any blockage from debris and/or excessive vegetation?	X	
SURVEY MONUMENTS		
1. Are survey monuments damaged?		X
2. Are there any signs of survey monument tampering?		X
GROUNDWATER MONITORING WELLS		
Are all monitoring well enclosures intact and secured?	X	
1. Is the concrete pad of each monitoring well intact and free of deterioration?	X	
3. Are groundwater samples being collected during this inspection?		X
If **YES**, complete the following:		
4. Does each well pumping assembly operate properly?		
5. Are all sounding tubes clear?		

If groundwater samples are collected during this inspection, use **Groundwater Sampling Log** to record all monitoring information.

MAINTENANCE/REPAIR REPORT
PAGE-TROWBRIDGE RANCH LANDFILL

EPA I.D. 980665814

Name/Title: (print) LLOYD M. WUNDROCK / ESO

Signature: Lloyd M. Wundrock

Instructions:

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DEFICIENCY	ACTION TAKEN	DATE
NORTH ACCESS	ROAD REPAIRS WILL	
ROAD	BE COMPLETED BY	
	03-31-2013 AS PER	
	DAN NELSON CAC	

Comments: