Texas Commission on Environmental Quality

Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION

SITE LOCATION				REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION	
Site Name: **1714 Vaughn Boulevard**				Is This Site Being Managed Under A State Lead Contract? ☐ Yes ☑ No	
Address 1: **1714 Vaughn Boulevard**				Program Area: **VOLUNTARY CLEANUP PROGRAM**	
Address 2:				Mail Code: **MC-221**	
City: **Fort Worth**		State: **Texas**		Is This A New Site To This Program Area? ☐ Yes ☑ No	
Zip Code: **76105**	County: **Tarrant**			**VCP No.:**	**2768**
TCEQ Region: **Region 4 - Dallas/Fort Worth**				**--Leave This Field Blank--**	**--Leave This Field Blank--**

DOCUMENT(S) IDENTIFICATION

	PHASE OF REMEDIATION	DOCUMENT NAME
1.	**ASSESSMENT**	**AFFECTED PROPERTY ASSESSMENT REPORT (APAR)**
2.	**CLOSURE**	**RESPONSE ACTION COMPLETION REPORT (RACR) FOR REMEDY STANDARD A**
3.		
4.		
5.		

CONTACT INFORMATION

RESPONSIBLE PARTY/APPLICANT/CUSTOMER

Name: **Prudencio Calderon**
Company: **1714 Vaughn Partners, LLC** Phone Number: **817-994-2417** Fax Number: **480-393-5063**
Address 1: **1105 North Bishop Avenue** City: **Dallas** State: **Texas** Zip Code: **75208**
Address 2: Email Address: **pule@sbcglobal.net**

ENVIRONMENTAL CONSULTANT/REPORT PREPARER/AGENT

Name: **Nick Cramer, P.G.**
Company: **W&M Environmental Group** Phone Number: **817-935-8926** Fax Number:
Address 1: **6825 Manhattan Boulvard, Suite 125** City: **Fort Worth** State: **Texas** Zip Code: **76120**
Address 2: Email Address: **ncramer@wh-m.com**

TCEQ INTERNAL USE ONLY

Document No.	TCEQ Database Term	Document No.	TCEQ Database Term
1.	**APAR**	4.	
2.	**RACR A**	5.	
3.			

January 29, 2016

Ms. Ruth Winsor, Project Manager
Texas Commission on Environmental Quality
VCP, CA Section, MC-221
12100 Park 35 Circle
Austin, Texas 78753

RE: Affected Property Assessment Report and Response Action Completion Report
1714 Vaughn Partners, LLC
1714 Vaughn Boulevard
Fort Worth, Texas 76105
VCP ID No. 2768
W&M Project No. 1483.003

Dear Ms. Winsor:

On behalf of 1714 Vaughn Partners, LLC, W&M Environmental Group, LLC. (W&M) is pleased to submit the Affected Property Assessment Report (APAR) and Response Action Completion Report (RACR) for the property addressed at 1714 Vaughn Boulevard in Fort Worth, Tarrant County, Texas (Site).

Based on the analytical results for soil and groundwater obtained during this Voluntary Cleanup Program (VCP) investigation, chemicals of concern (COCs) detected in groundwater are below the residential assessment levels (RALs) for residential land use. A single protective concentration level exceedance (PCLE) zone was identified for total petroleum hydrocarbons (TPH) in surface soil occurring within the upper one-foot in the vicinity of two former 55-gallon steel drums. The affected soils were excavated and removed for off-Site disposal.

If you have any questions, please contact me at 817-935-8925. We look forward to receiving your comments on the submittal.

Very truly yours,
W&M ENVIRONMENTAL GROUP, LLC.

Nick Cramer, P.G.
Geologist

Paul S. Rodusky, P.G.
Senior Consultant

STATE OF TEXAS
PAUL S. RODUSKY
GEOLOGY
375
LICENSED
PROFESSIONAL GEOSCIENTIST
1, 2016

STATE OF TEXAS
NICHOLAS CRAMER
GEOLOGY
11561
LICENSED
PROFESSIONAL GEOSCIENTIST
2016

Enclosures

cc: Prudencio Calderon – 1714 Vaughn Partners, LLC
TCEQ Region 4 – Fort Worth

W&M Environmental Group, LLC

Response Action Completion Report

1714 Vaughn Boulevard
Fort Worth, Texas
VCP No. 2768

January 2016

Executive Summary	Page ___ of ___	
	ID No. VCP 2768	Report Date:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Response Action Completion Report

Cover Page

Regulatory ID number (Solid waste registration number, VCP ID number, etc) VCP 2768
check one: X Initial RACR submittal for this on-site property ___ Subsequent RACR submittal
Report date: 11/10/15 TCEQ Region No.: 4

TCEQ Program (check one)

___ Corrective Action (Mail Code 127)
X Voluntary Cleanup Program (Mail Code 221)
___ Petroleum Storage Tank Program (Mail Code 137)
___ Superfund PRP Lead (Mail Code 143)
___ Municipal Solid Waste Permits (Mail Code 124)

On-Site Property Information

On-Site Property Name: 1714 Vaughn Boulevard
Street no. 1714 Pre dir: ____ Street name: Vaughn Street type: Blvd Post dir: ___
City: Fort Worth County: Tarrant County Code: 220 Zip: 76105
Nearest street intersection or location description: Vaughn Boulevard and Avenue J

Latitude: Degrees, Minutes, Seconds OR Decimal Degrees (circle one) North 32.727364°
Longitude: Degrees, Minutes, Seconds OR Decimal Degrees (circle one) West -97.279868°

Off-Site Affected Property Information

Off-Site Affected Property Name: ____
Street no. ____ Pre dir: ___ Street name: ____ Street type: ____ Post dir: ___
City: ____ County: ____ County Code: ____ Zip: ____

X Check if there are no off-site properties affected

Contact Person Information and Acknowledgement

Person (or company) Name: 1714 Vaughn Partners, LLC
Contact Person: Prudencio Calderon Title: Manager
Mailing Address: 1105 North Bishop Avenue
City: Dallas State: TX Zip: 75208 E-mail address pule@sbcglobal.net
Phone: 817-994-2417 Fax: 480-393-5063

By my signature below, I acknowledge the requirement of §350.2(a) that no person shall submit information to the executive director or to parties who are required to be provided information under this chapter which they know or reasonably should have known to be false or intentionally misleading, or fail to submit available information which is critical to the understanding of the matter at hand or to the basis of critical decisions which reasonably would have been influenced by that information. Violation of this rule may subject a person to the imposition of civil, criminal, or administrative penalties.

Signature of Person ____ Name, print: Prudencio Calderon Date: 12-14-15

Check the reports/forms submitted:

Remedy Standard A

X Self-Implementation Notice Submittal date: 10/15/15

___ Response Action Plan - Approval date: _____

Remedy Standard B

___ Response Action Plan - Approval date: _____

List all media (surface soil, subsurface soil, groundwater, sediment, surface water, air) that contained or contains a PCLE zone and specify the response action taken for each media. Indicate the type of removal, decontamination, physical control, or institutional control action that was used in the response action. If a media with a PCLE zone was not addressed in the response action, provide an explanation below.

Media	COCs[1]	Removal	Decontamination	Physical Control	Institutional Control	Modified Response Objective[2]		
						PMZ	WCU	TI
Surface Soil	TPH (>C_{12} -C_{28})	X						
Surface Soil	TPH (>C_{28} -C_{35})	X						

Is there a media that contains a PCLE zone that was not addressed in the response action? yes ___ X no ___

If yes, provide justification for not addressing the PCLE zone in the response action.

Current land use of the on-site affected property: ___ Residential X Commercial/industrial

Projected future land use of the on-site property (if known): X Residential ___ Commercial/industrial

Explain why you believe the response action to be complete.

[1] Specify either a specific COC or, if the response action is the same for all COCs in one type, specify the type of COC (for example, VOCs, SVOCs, metals).

[2] If a modified groundwater response objective was used, check the type(s) of modifications.

Executive Summary

ID No. VCP 2768

Report Date: January 29, 2016

The Site was entered into the Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP) in August 2015. A chronology of events is inserted after this executive summary. The Site has been assessed as part of a property transfer whereby the VCP Applicant, 1714 Vaughn Partners, LLC, has now purchased the Site.

The assessment began with a Phase I Environmental Site Assessment (ESA) in June 2015. The initial assessment was followed by a Limited Phase II Site Investigation completed in July 2015 to further assess Recognized Environmental Conditions (RECs) that were identified in the Phase I ESA and consisted of soil and groundwater sampling. A groundwater classification study was performed in August 2015 that demonstrated that the uppermost Groundwater Bearing Unit (GWBU) on-Site is classified as a Class 3 groundwater resource. Additional assessments were performed from September through November 2015 as part of the response action to determine the vertical and horizontal extent of chemicals of concern (COCs) at the Affected Property. One area was identified as an Affected Property. The Affected Property was determined to be a small area of surface soils beneath and surrounding two 55-gallon steel drums formerly located on the property. The soils were impacted with Total Petroleum Hydrocarbons (TPH) (Aromatics >C21-C35) at concentrations above Texas Risk Reduction Program (TRRP) Tier 1 Protective Concentration Levels (PCLs) for surface and subsurface soil to protect groundwater ($^{GW}Soil_{Class\ 3}$). The Affected Property was delineated horizontally and vertically and impacted surface soils were excavated and disposed of at a licensed disposal facility.

CHRONOLOGY OF EVENTS

Date	Activity/Report Description
January 2016	W&M submits a Response Action Completion Report (RACR) and Affected Property Assessment Report (APAR) for the Site to the TCEQ.
November 2015	W&M excavated the TRRP Tier 1 Protective Concentration Level Exceedance (PCLE) zone and the removed material was staged on the Site in a covered roll off bin for one day before it was transported off the Site for disposal at a licensed facility.
October - November 2015	W&M submitted a Self-Implementation Notice (SIN), collected and analyzed confirmation soil samples to delineate the PCLE zone.
August 2015	A groundwater classification study was performed that indicated a yield of <136 gallons per day (gpd) (equal to 150 gpd for a 4-inch well) at the Site is not sustainable over time. Thus the uppermost GWBU on-Site is classified as a Class 3 groundwater resource. Based on the Class 3 groundwater designation, all concentrations of constituents were below TRRP Tier 1 PCLs for a site with a Class 3 groundwater designation with the exception of TPH (Aromatics >C21-C35) which were detected in a surface soil sample (HA-1[0-0.5']). Note that HA-1 is a boring that was located within the areas of soil staining and dead vegetation that represents a past release to the environment by two 55-gallon steel drums formerly located on the property.
August 2015	An application to enter the VCP was submitted.
July 2015	W&M conducted a Limited Phase II Investigation at the Site to further assess the RECs that were identified in the Phase I ESA. This investigation consisted of installing four borings, converting the borings to permanent monitoring wells, and collecting soil and groundwater samples. A summary of findings and conclusions is presented below: • None of the detected concentrations of volatile organic compounds (VOCs) or organochlorine pesticides (OCPs) exceeded the TRRP Tier 1 PCLs for soil. However, TPH concentrations, specifically Aromatics >C21-C35, were detected in a surface soil sample at levels exceeding Tier 1 PCLs for the total soil combined exposure pathway. • None of the detected concentrations VOCs, OCPs or TPH exceeded the TRRP groundwater PCLs applicable to a Site with Class 3 groundwater. Note that the UGBU at the Site is likely a Class 3 groundwater resource. • None of the four RECs noted in the Phase I ESA appear to have impacted soil with COCs according to our sampling results with the exception of the presence of two 55-gallon steel drums on the property with adjacent areas of soil staining and dead vegetation that represents a past release to the environment of unknown chemicals.

June 2015	W&M completed a Phase I ESA of the Site. W&M identified several on-Site RECs including the following: • The historical use of the Site as a gasoline and automobile service station, as a pest exterminating company, and a previous on-Site underground storage tank (UST) is considered a REC due to the possibility that hazardous substances or petroleum products could have been released to the environment. • The presence of two 55-gallon steel drums on the property, with adjacent areas of soil staining and dead vegetation, represents a past release to the environment and is therefore considered a REC in connection with the Site. • The one-story garage in the northwestern portion of the Site that was used as an automobile service facility and could reasonably have been used as a chemical storage area poses a material threat of a past release to the environment due to the possible use of solvents and petrochemicals in the operations and is therefore considered a REC in connection with the Site. • Upgradient southeast-adjacent and east-adjacent properties have been occupied by cleaners and gasoline and oil service stations and therefore pose a material threat of a past release to the environment due to the possible use of chlorinated solvents and petrochemicals in the operations and are therefore considered RECs in connection with the Site.

Checklist for Report Completeness

Use this checklist to determine the portions of the form that must be submitted for this report. Answer all questions by checking Yes or No. If the answer is Yes include that portion of the report. If the answer is No, do not complete or submit that portion of the report. All form contents that are marked "Required" must be submitted. Form contents marked with an asterisk (*) are not included in the blank form and are to be provided by the person.

			Report Contents	
		Required	**Cover Page**	☒
		Required	**Executive Summary**	☒
		Required	**Checklist for Report Completeness**	☒
		Required	**Worksheet 1.0** Confirmation of Response Action Objectives	☒
		Required	**Attachment 1A*** Maps and Cross Sections	☒
		Required	**Attachment 1B*** Graphs	☐
		Required	**Attachment 1C*** Response Action Diagrams	☐
No ☒	Was a plume management zone used as part of the response action?	☐ Yes	**Worksheet 2.0** Plume Management Zone	☐
			Attachment 2A* Map of Plume Management Zone	☐
No ☒	Was an area of technical impracticability approved for use as part of the response action?	☐ Yes	**Worksheet 3.0** Technical Impracticability	☐
			Attachment 3A* Map of Technical Impracticability Area	☐
No ☒	Were institutional controls used or required as part of the response action?	☐ Yes	**Worksheet 4.0** Institutional Controls	☐
		Required	**Worksheet 5.0** Performance Measures and Problems	☒
No ☒	Did the response action require any operation and maintenance activities?	☐ Yes	**Worksheet 6.0** Operation and Maintenance	☐
No ☒	Has there been any change to the plans for post-response action care from that submitted in the RAP?	☐ Yes	**Worksheet 7.0** Post-Response Action Care	☐
No ☐	Was any information for this report obtained from outside sources?	☒Yes	**Appendix 1*** References	☒
No ☒	Was an ESA and/or Compensatory Restoration used as part of the response action?	☐ Yes	**Appendix 2*** ESA and Compensatory Restoration	☐
No ☒	Were institutional controls or landowner concurrence required in the response action?	☐ Yes	**Appendix 3*** Institutional Controls and Landowner Concurrence	☐

Checklist for Report Completeness

ID No. VCP 2768

Report Date: January 29, 2016

			Report Contents	
No ☐	Is there data or boring/monitor well information not previously submitted?	☒ Yes	**Appendix 4*** Data Tables, Boring Logs, and Well Completions	☒
No ☒	Did sampling procedures differ from those described in the RAP?	☐ Yes →	**Appendix 5*** Sampling Procedures	☐
No ☐	Has any sampling been conducted for which the analytical results were not previously submitted?	☒ Yes	**Appendix 6*** Laboratory Data Packages	☒
No ☒	Were statistics or geostatistics used in the response action?	☐ Yes →	**Appendix 7*** Statistical Methodology	☐
No ☐	Were any wastes generated that were not reported through STEERS?	☒ Yes	**Appendix 8*** Waste Disposition	☒

Use this worksheet to describe the attainment of the response action objectives in each media.

Response Action Objectives

What was the selected remedy standard for this affected property? X A ___ B

List the environmental media to which this applies Surface Soil

Repeat this section for each medium that had a different response action objective.

Provide a detailed description of the response action. Describe the removal actions, decontamination actions, treatment system(s), physical or institutional control actions, and any actions for ecological considerations (ecological services analysis and compensatory restoration plans) that were conducted in each media and indicate if there were any differences between the actions taken and the actions proposed in the SIN or RAP.

On August 4, 2015 a boring was advanced to vertically delineate the Total Petroleum Hydrocarbons (TPH) impact to shallow soils in the area affected by the previously removed 55-gallon drums. On September 15 and November 3, 2015 additional borings were installed to horizontally delineate the affected area based on field indicators of impact (odor and staining), to collect samples to profile the impacted soil for later disposal prior to excavation, and to collect confirmation samples of the surrounding un-impacted area. The confirmation soil samples were collected from the surrounding un-impacted area that was determined based on field indicators of impact (odor and staining). Confirmation grab samples were placed in 4 ounce (oz.) glass jars provided by the laboratory and placed on ice in a cooler for shipment to the sample laboratory. Confirmation surface soils samples were sent to a National Environmental Laboratory Accreditation Conference (NELAC) certified laboratory, ALS Environmental, for laboratory analysis. The surface soil was excavated on November 3, 2015 using a back-hoe and the removed material was staged on the Site in a covered roll off bin until it was transported off the Site for disposal at a licensed facility on November 6, 2015.

Describe how the response action achieved the property-specific response objectives for the PCLE zone in each media in the context of the response objectives set forth in §350.32 or §350.33, as applicable. Explain how the response action was appropriate based on the hydrogeologic and COC characteristics. Describe any unprotective conditions that continued or resulted from the remedial actions and the actions taken to mitigate unprotective conditions.

The soil excavation was completed to the vertical and horizontal extent of the Protective Concentration Level Exceedance (PCLE) zone as stated in the Self-Implementation Notice (SIN). Soil sampling was used to delineate the affected area, to collect samples to profile the impacted soil for later disposal prior to excavation, and to collect confirmation samples of the surrounding un-impacted area. The confirmation soil sample locations were selected based on field indicators of impact (odor and staining). The SIN approach of soil excavation was an appropriate response action because soil excavation was conducted at shallow depths and the TPH-affected soil was removed and transported off-Site for disposal at an approved landfill.

If different from the information provided in the RAP, explain how the COCs were handled, treated, disposed, or transferred to another media and document that the response action did not result in any additional exposure conditions due to response action activities.

Not Applicable

Explain how the response action achieved the objectives within the reasonable time frame.

The use of soil excavation as a response action to remove surface soil exceeding the critical PCLs (cPCLs) took one excavation event that was initiated and completed on November 3, 2015. Soil screening with field indicators of TPH (odor and staining) and delineation and confirmation soil samples indicate that the impacted shallow soils exceeding the applicable TRRP PCL have been successfully removed from the Site.

Were physical controls used as part of the response action? ___ Yes _X_ No

If yes, describe the type and purpose of the physical control and discuss how the physical control has proved effective.

Soil Response Action Objectives

When using removal and/or decontamination with controls or controls only, demonstrate that the physical control or combination of measures reliably contained COCs within and/or derived from the surface soil and subsurface soil PCLE zone materials over time.

Not Applicable.

Explain how the removal or decontamination action reduced the concentration of COCs to the critical surface soil and subsurface soil PCL throughout the soil PCLE zone and prevented COC concentrations above the critical soil PCLs from migrating beyond the original boundary of the soil PCLE zone.

All soils with chemicals of concern (COCs) at concentrations above the cPCLs were removed from the ground to the appropriate depth and horizontal limits for off-Site disposal. Residual COC concentrations are delineated within the Site to the Residential Assessment Limit (RAL). No concentrations remain on the Site that are above the RAL. The Affected Property exists outside and the excavation has been restored with imported clean fill.

Groundwater Response Action Objectives

Name of groundwater-bearing unit to which this information applies: Not Applicable

Repeat this section for each groundwater-bearing unit for which a different response action was conducted.

Groundwater classification: 1 ___ 2 ___ 3 ___

Was a modified groundwater response action used for any part of the groundwater PCLE zone (§350.33(f)(2), (3), or (4))? ___ Yes ___ No

If yes, complete the appropriate portions of this report.

Explain how the removal or decontamination actions reduced the concentration of COCs to the critical groundwater PCL throughout the groundwater PCLE zone and prevented COC concentrations above the critical groundwater PCL from migrating beyond the original boundary of the groundwater PCLE zone. If COC concentrations above the critical groundwater PCL ever migrated beyond the original boundary of the groundwater PCLE zone, explain the actions taken to address the increase in the PCLE zone.

Not Applicable

Explain how the response action prevented COCs from migrating to air at concentrations above the PCLs for air if the groundwater-to-air PCLs ($^{Air}GW_{Inh\text{-}V}$) were exceeded.

Not Applicable

Explain how the response action prevented COCs from migrating to surface water at concentrations above the PCLs for groundwater discharges to surface water if surface water was a factor.

Not Applicable

Explain how the response action prevented human and ecological receptor exposure to the groundwater PCLE zone.

Not Applicable

Waste Management

Describe the volume and final disposition or reuse location of waste or environmental media that was removed from the affected property during the response action, if not previously reported under STEERS. Provide copies of all manifests, other documentation of disposition, and landowner consent for reuse of soil in Appendix 8.

Soil excavated from the subject property was transported under manifest to an approved disposal facility. The manifests in **Appendix 8** document removal of approximately 20 cubic yards of soil (determined by the landfill and based on the size of the container) and the landfill receipts indicate the total weight of the material received was approximately 10 tons.

Performance Measures

List and describe the performance measures for each environmental medium containing a PCLE zone that were used to determine if reasonable progress is being made by the response action in a timely manner. Provide documentation that these performance measures were met. Attach additional information if necessary.

No performance measures were implemented to complete this response action other than confirmation samples described above.

Problems

Complete the table for the response action. When the response action consisted of several components or multiple actions, complete one table for each major component or action.

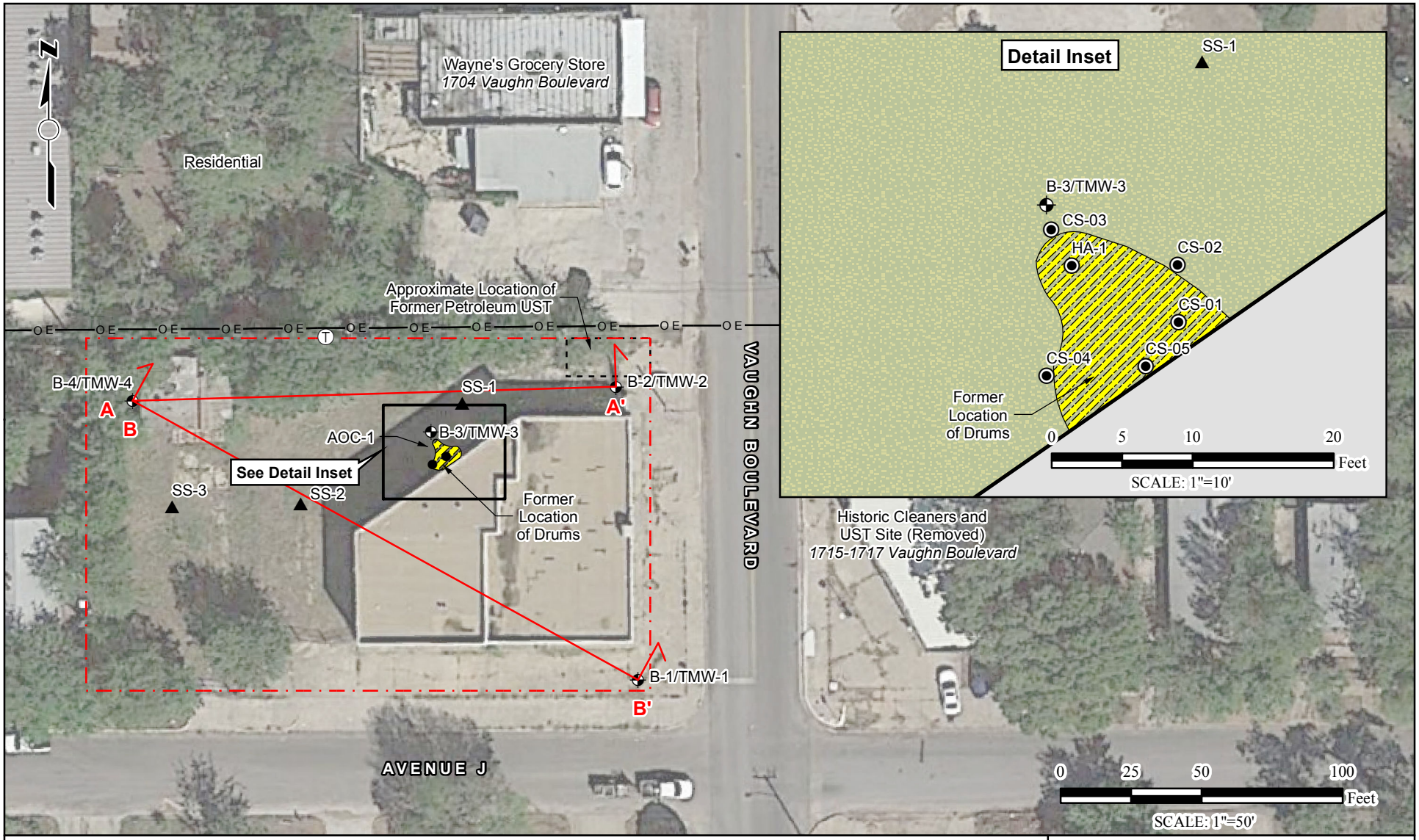
Response Action Name/Designation: Surface Soil

List the problems that were encountered during the response action, describe the impact of each problem, and the response to the problem.

Description of the Problem	Impact	Did this cause a response action failure?		Corrective Response
		Yes	No	
No issues with the Remedial Action.				

MAPS AND CROSS SECTIONS

ATTACHMENT 1A



Legend

- Approximate Site Boundary
- Affected Property
- Former Tankhold
- Cross Section Index Line
- Former Drum
- Pole-Mounted Transformer
- OE Overhead Electrical Line
- Soil Boring/Temporary Monitoring Well Location (B-#/TMW-#)
- Hand-Augered Sample Location (HA-# or CS-#)
- Soil Sample

Source: Tarrant Appraisal District, Google Earth (10/2014)

Figure 1B
Affected Property Map

1714 Vaughn Boulevard
Fort Worth, Texas

W&M Environmental Group, LLC

1/21/2016	W&M Project No.: 1483.003	Drawn by: JPM	Checked by: NC	Revised:

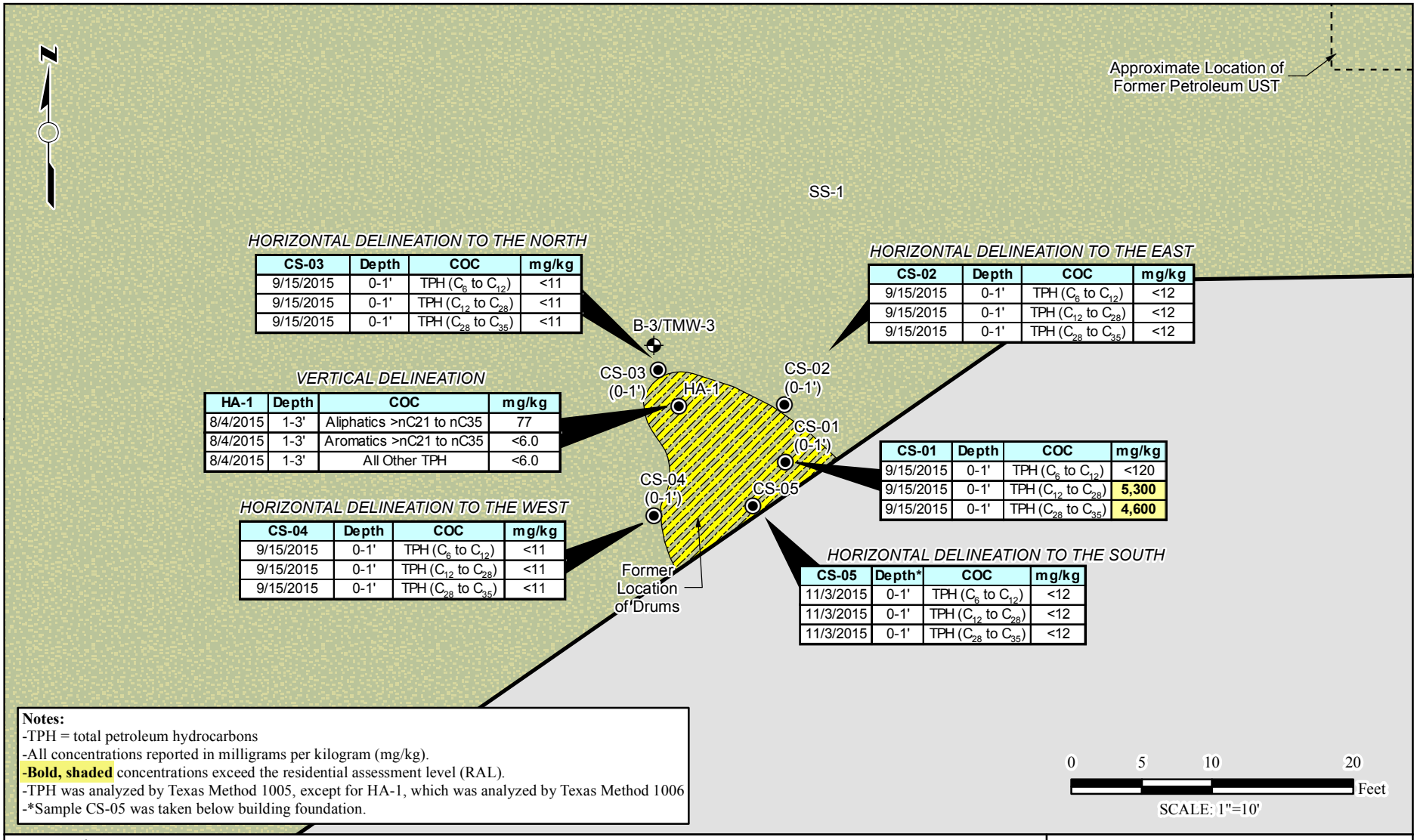
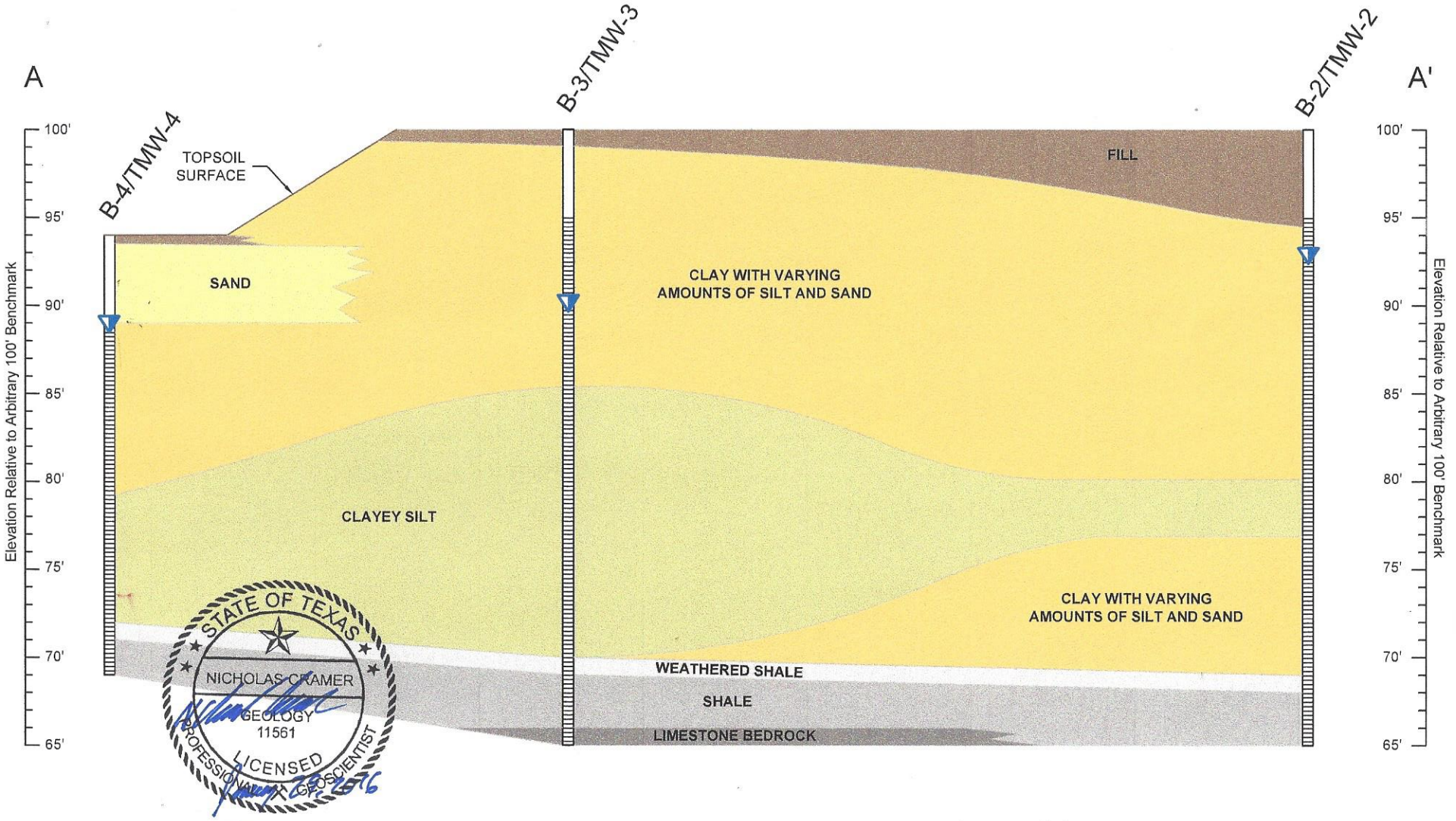


Figure 4A
TPH in Surface Soil

1714 Vaughn Boulevard
Fort Worth, Texas

1/21/2016	W&M Project No.: 1483.003	Drawn by: JPM	Checked by: NC	Revised:

W&M Environmental Group, LLC



Legend

- Fill
- Sand
- Clay with Silt and Sand
- Clayey Silt
- Weathered Shale
- Shale Bedrock
- Limestone Bedrock
- Groundwater Depth (As Measured on 1/6/2016)

Note: Ground elevations are approximate.

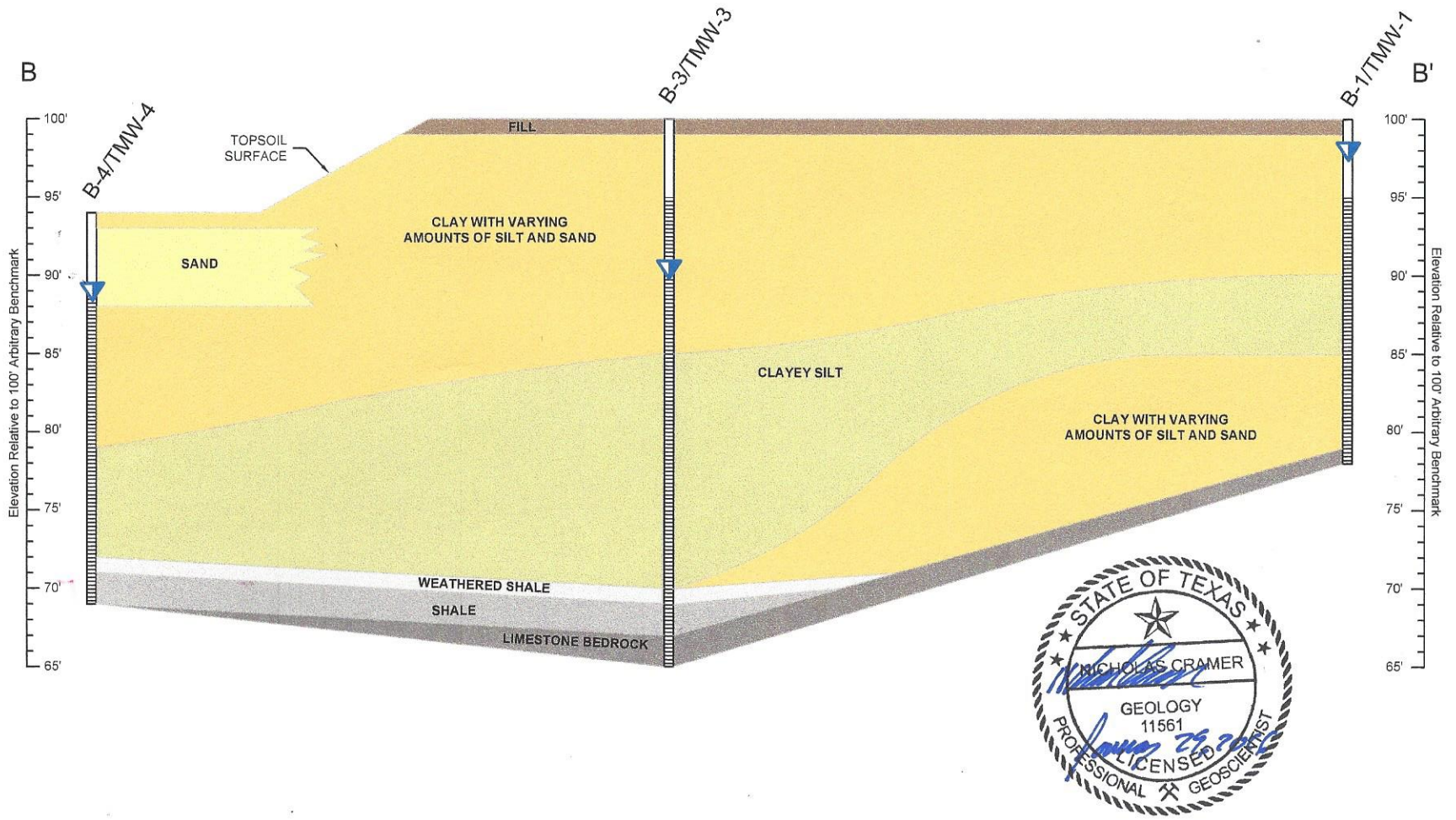
0 10' 20' 40'

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=8'

Figure 4C-1
Geologic Cross Section A-A'
1714 Vaughn Boulevard
Fort Worth, Texas

W&M Environmental Group LLC

11/19/2015	W&M Project No.: 1483.003	Drawn by: JPM	Checked by: NC	Revised by:



Legend

- Fill
- Sand
- Clay with Silt and Sand
- Clayey Silt
- Weathered Shale
- Shale Bedrock
- Limestone Bedrock
- Groundwater Depth (As Measured on 1/16/2016)

Note: Ground elevations are approximate.

0 12.5' 25' 50'

HORIZONTAL SCALE: 1"=25'
VERTICAL SCALE: 1"=10'

Figure 4C-2
Geologic Cross Section B-B'
1714 Vaughn Boulevard
Fort Worth, Texas

W&M Environmental Group LLC

11/19/2015	W&M Project No.: 1483.003	Drawn by: JPM	Checked by: NC	Revised by:

GRAPHS
(NOT APPLICABLE)

ATTACHMENT 1B

RESPONSE ACTION DIAGRAMS
(NOT APPLICABLE)

ATTACHMENT 1C

MAP OF PLUME MANAGEMENT ZONE
(NOT APPLICABLE)

ATTACHMENT 2A

MAP OF TECHNICAL IMPRACTICABILITY (NOT APPLICABLE)

ATTACHMENT 3A

REFERENCES

APPENDIX 1D

Appendix 1D
References

1714 Vaughn Boulevard
Fort Worth, Texas
VCP No. 2768

United States Geological Survey, Texas Board of Water Engineers, USGS, *Bulletin 5109, Geology and Ground-Water Resources of Tarrant County, Texas*, E. R. Leggat, City of Fort Worth, September 1957.

Texas Natural Resources Information System, *Geologic Database of Texas*, 2007.

Texas Water Development Board, *Aquifers of Texas, Report 380*, July 2011.

W&M Environmental Group, LLC, *Phase I Environmental Site Assessment, Vacant Mixed-Use Property, 1714 Vaughn Boulevard, Fort Worth, Texas*, June 12, 2015.

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey: http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm.

ESA AND COMPENSATORY RESTORATION (NOT APPLICABLE)

APPENDIX 2

INSTITUTIONAL CONTROLS AND LANDOWNER CONCURRENCE
(NOT APPLICABLE)

APPENDIX 3

DATA TABLES, BORING LOGS AND WELL COMPLETIONS

APPENDIX 4

TABLE 4D-1
SOIL DATA SUMMARY

1714 Vaughn Boulevard
Fort Worth, Texas

SAMPLE ID[1]	$^{GW}Soil_{Class3}$ Tier 1 Residential PCL[2]	$^{Tot}Soil_{Comb}$ Tier 1 Residential PCL[3]	B-1/TMW-1 (7.5-10') 7/9/2015	B-2/TMW-2 (7.5-10') 7/9/2015	B-3/TMW-3 (7.5-10') 7/9/2015	B-4/TMW-4 (12.5-15') 7/9/2015	HA-1 (0-0.5') 8/4/2015	CS-01 (0-1') 9/15/2015	CS-02 (0-1') 9/15/2015	CS-03 (0-1') 9/15/2015	CS-04 (0-1') 9/15/2015	CS-05 (2.75-3') 11/3/2015	SS-01 (0-1') 1/5/2016	SS-02 (0-1') 1/5/2016	SS-03 (0-1') 1/5/2016
VOCs (mg/kg)[4]															
2-Butanone	**2,900**	40,000	<0.0016	<0.0014	<0.0014	<0.0016	0.084	---	---	---	---	---	---	---	---
4-Methyl-2-pentanone	**490**	5,900	<0.0025	<0.0022	<0.0021	<0.0024	0.29	---	---	---	---	---	---	---	---
Acetone	**4,300**	66,000	<0.0039	0.049	<0.0032	<0.0038	0.22	---	---	---	---	---	---	---	---
Chloroform	100	**16**	<0.00062	<0.00056	<0.00052	<0.00061	0.021	---	---	---	---	---	---	---	---
Methylcyclohexane	1,000,000	**41,000**	<0.0015	0.015	<0.0012	<0.0015	<0.0013	---	---	---	---	---	---	---	---
All other VOCs	Varies	Varies	<SDL	<SDL	<SDL	<SDL	<SDL	---	---	---	---	---	---	---	---
OCP (mg/kg)[5]															
4,4'-DDD	1,300	**14**	---	---	<0.00057	---	0.29 JP	---	---	---	---	---	---	---	---
4,4'-DDE	1,200	**10**	---	---	<0.00057	---	0.20 JP	---	---	---	---	---	---	---	---
4,4'-DDT	1,500	**5.4**	---	---	<0.00057	---	0.056	---	---	---	---	---	---	---	---
Aldrin	10	**0.05**	---	---	<0.00034	---	0.018	---	---	---	---	---	---	---	---
alpha-BHC	0.79	**0.26**	---	---	<0.00034	---	0.0041 P	---	---	---	---	---	---	---	---
beta-BHC	2.9	**0.93**	---	---	<0.00034	---	0.0032 P	---	---	---	---	---	---	---	---
delta-BHC	17	**2.9**	---	---	<0.00023	---	0.0012 JP	---	---	---	---	---	---	---	---
alpha-Chlordane	74,000	**13**	---	---	<0.00023	---	1.0 P	---	---	---	---	---	---	---	---
gamma-Chlordane	4,100	**7.4**	---	---	<0.00023	---	1.1 P	---	---	---	---	---	---	---	---
Dieldrin	4.9	**0.15**	---	---	0.021	---	0.050	---	---	---	---	---	---	---	---
Endosulfan I	3,100	**91**	---	---	<0.00034	---	0.019	---	---	---	---	---	---	---	---
Endosulfan sulfate	470,000	**380**	---	---	<0.00068	---	0.0056	---	---	---	---	---	---	---	---
Endrin	75	**9**	---	---	<0.00068	---	0.022 P	---	---	---	---	---	---	---	---
Endrin aldehyde	63,000	**19**	---	---	<0.00068	---	0.018	---	---	---	---	---	---	---	---
Endrin ketone	5,100	**19**	---	---	<0.00068	---	0.011	---	---	---	---	---	---	---	---
gamma-BHC	**0.92**	1.1	---	---	<0.00023	---	0.0051 P	---	---	---	---	---	---	---	---
Heptachlor	19	**0.13**	---	---	<0.00034	---	0.061 J	---	---	---	---	---	---	---	---
Heptachlor epoxide	5.8	**0.24**	---	---	<0.00034	---	0.15 J	---	---	---	---	---	---	---	---
Methoxychlor	12,000	**270**	---	---	<0.0039	---	0.0098 JP	---	---	---	---	---	---	---	---
All other OCP	Varies	Varies	---	---	<SDL	---	<SDL	---	---	---	---	---	---	---	---
TPH by Texas 1005 (mg/kg)[6]															
TPH (C_6 to C_{12})	6,500	**1,600**	<12	26 J	<11	<13	<1,100	<120	<12	<11	<11	<12	---	---	---
TPH (C_{12} to C_{28})	20,000	**2,300**	<12	<12	<11	<13	14,000	5,300	<12	<11	<11	<12	---	---	---
TPH (C_{28} to C_{35})	20,000	**2,300**	<12	<12	<11	<13	14,000	4,600	<12	<11	<11	<12	---	---	---
TPH (C_6 to C_{35})	---	---	<12	26 J	<11	<13	28,000	9,900	<12	<11	<11	<12	---	---	---
Metals (mg/L)[7]															
Arsenic	500	**24**	---	---	---	---	---	---	---	---	---	---	15.8	17.6	5.35

Notes:

[1]Samples collected by W&M Environmental Group, LLC and analyzed by ALS Environmental in Houston, Texas.
[2]Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 protective concentration level (PCL) for soil protective of Class 3 groundwat
[3]TCEQ TRRP Tier 1 PCL for total combined surface soil pathways in a residential setting with a 0.5-acre source area (November 12, 2014)
[4]Volatile organic compounds (VOCs) analyzed by U.S. Environmental Protection Agency (EPA) Method 8260B.
[5]Organochlorinated Pesticides analyzed by EPA Method 8081B.
[6]Total petroleum hydrocarbons (TPH) by Texas Method TX 1005.
[7]Arsenic analyzed by EPA Method 6020A.
(---) Constituent not analyzed.
<### Indicates concentrations less than the laboratory sample detection limit (SDL).
J- Analyte detected below quantitation limit.
P - Dual column results percent difference > 40%. This flag is used for pesticide and Aroclor target compounds when there is greater than 25% difference for detected concentrations between
Bold values indicate the TRRP residential assessment level (RAL) for each chemical of concern (COC).
Highlighted **values** indicate concentration exceeds the RAL.
Concentrations reported in milligrams per kilogram (mg/kg).

TABLE 4D-2
SOIL DATA SUMMARY- PAH & TPH 1006

1714 Vaughn Boulevard
Fort Worth, Texas

SAMPLE ID[1]	$^{GW}Soil_{Class3}$ Tier 1 Residential PCL[2]	$^{Tot}Soil_{Comb}$ Tier 1 Residential PCL[3]	HA-1 (0-0.5') 8/4/2015	HA-1 (1-3') 8/4/2015
Polynuclear Aromatic Hydrocarbons (mg/kg)[4]				
Acenaphthene	24,000	**3,000**	0.11 J	<0.0022
Anthracene	690,000	**18,000**	<0.022	0.0013 J
Benz(a)anthracene	1,800	**5.70**	0.18	0.0043
Chrysene	150,000	**560**	0.37	0.0081
Fluoranthene	190,000	**2,300**	0.20	0.0042
Fluorene	30,000	**2,300**	0.051 J	<0.0013
Naphthalene	3,100	**220**	0.030 J	<0.00073
Phenanthrene	42,000	**1,700**	0.14 J	0.0027 J
Pyrene	110,000	**1,700**	1.1	0.014
All Other PAH	Varies	Varies	<SDL	<SDL
TPH by TX 1006 (mg/kg)[5]				
Aliphatics >nC21 to nC35	1,000,000	**130,000**	19,000	77
Aromatics >nC21 to nC35	370,000	**2,000**	2,700	<6.0
All Other TPH by TX 1006	Varies	Varies	<560	<6.0

Notes:

[1]Samples collected by W&M Environmental Group, LLC and analyzed by ALS Environmental in Houston, Texas.

[2]Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 protective concentration level (PCL) for soil protective of Class 3 groundwater ($^{GW}Soil_{Class3}$) in a residential setting with a 0.5-acre source area (November 12, 2014).

[3]TCEQ TRRP Tier 1 PCL for total combined surface soil pathways in a residential setting with a 0.5-acre source area (November 12, 2014).

[4]Polynuclear aromatic hydrocarbons (PAHs) analyzed by U.S. Environmental Protection Agency (EPA) Method 8270C.

[5]Total Petroleum Hydrcarbons (TPH) analyzed by Texas Method TX 1006.

(---) Constituent not analyzed.

<### Indicates concentrations less than the laboratory sample detection limit (SDL).

J- Analyte detected below quantitation limit.

Bold values indicate the TRRP residential assessment level (RAL) for each chemical of concern (COC).

Highlighted **values** indicate concentration exceeds the RAL.

Concentrations reported in milligrams per kilogram (mg/kg).

TABLE 5B
GROUNDWATER DATA SUMMARY

1714 Vaughn Boulevard
Fort Worth, Texas

Sample ID[1]	$^{GW}GW_{Class3}$	$^{Air}GW_{Inh-V}$	B-1/MW-1	B-1/MW-1	B-2/TMW-2	B-3/TMW-3	B-4/TMW-4	B-4/TMW-4	B-4/TMW-4
Date Collected	**Tier 1 Res. PCL[2]**	**Tier 1 Res. PCL[3]**	**8/18/2015**	**1/6/2016**	**7/15/2015**	**7/16/2015**	**7/21/2015**	**7/24/2015**	**8/18/2015**
VOCs[4] (mg/L)									
Acetone	**2,200**	1,000,000	0.0022	---	0.0038	<0.0020	<0.0020	---	---
Carbon disulfide	**150**	---	0.00086 J	---	<0.0006	<0.0006	<0.0006	---	---
MTBE	**24**	4,000	<0.0002	---	0.0031	<0.0002	<0.0002	---	---
Toluene	**100**	64,000	<0.0002	---	0.00039 J	<0.0002	<0.0002	---	---
All Other VOCs	Varies	Varies	<SDL	---	<SDL	<SDL	<SDL	---	---
OCP (mg/L)[5]									
Dieldrin	**0.0057**	130	---	---	---	0.00037	---	<0.00001	0.000049 J
Endosulfan I	**4.9**	---	---	---	---	<0.00001	---	<0.00001	0.000019 J
Gamma-Chlordane	**0.26**	150	---	---	---	<0.00002	---	<0.00002	0.000031 J
All Other OCP	Varies	Varies	---	---	---	<SDL	---	<SDL	<SDL
TPH (mg/L)[6]									
TPH (C_6 to C_{12})	**98**	1,800	<0.24	---	<0.20	<0.20	<0.19	---	---
TPH (C_{12} to C_{28})	**98**	7,500	<0.24	---	<0.20	<0.20	<0.19	---	---
TPH (C_{28} to C_{35})	**98**	7,500	<0.24	---	<0.20	<0.20	<0.19	---	---
TPH (C_6 to C_{35})	---	---	<0.24	---	<0.20	<0.20	<0.19	---	---
Metals (mg/L)[7]									
Arsenic	**1.0**	---	---	0.00208 J	---	---	---	---	---
Barium	**200**	---	---	0.0607	---	---	---	---	---
Cadmium	**0.5**	---	---	<0.000200	---	---	---	---	---
Chromium	**10**	---	---	<0.000400	---	---	---	---	---
Lead	**1.5**	---	---	<0.000600	---	---	---	---	---
Mercury	**0.2**	7.3	---	<0.000400	---	---	---	---	---
Selenium	**5.0**	---	---	0.00193 J	---	---	---	---	---
Silver	**12**	---	---	<0.000200	---	---	---	---	---

Notes:

[1]Samples collected by W&M Environmental Group, LLC and analyzed by ALS Environmental in Houston, Texas.

[2]Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 protective concentration level (PCL) for ingestion of Class 3 groundwater ($^{GW}GW_{Class3}$), November 12, 2014.

[3]TCEQ TRRP Tier 1 PCL for inhalation of volatiles from groundwater ($^{Air}GW_{Inh-v}$), November 12, 2014.

[4]Volatile organic compounds (VOCs) analyzed by U.S. Environmental Protection Agency (EPA) Method 8260B.

[5]Organochlorinated pesticides by EPA Method 8081B.

[6]Total petroleum hydrocarbons (TPH) by Texas Method 1005.

[7]Metals analyzed by EPA Methods 6020A and 7470A.

(---) Constituent not analyzed.

Bold values indicate the residential assessment level (RAL) for each chemical of concern (COC).

Highlighted values indicate concentrations exceeding the RAL.

(<) Indicates the value was not detected above the sample detection limit (SDL).

(J) Indicates that the value is an estimated value below the lowest calibration point.

Concentrations reported in milligrams per liter (mg/L).

TABLE 5D
Groundwater Measurements

1714 Vaughn Boulevard
Fort Worth, Texas

Monitoring Well	TOC Elevation (ft)	Screened Interval (ft-bgs)	Total Depth (ft-bgs)	Date	Depth to Water (ft-bgs)	Corrected Water Elevation (ft)
MW-1	100.96	5 - 22	23.50	7/15/2015	-	-
				7/21/2015	-	-
				7/24/2015	-	-
				8/2/2015	21.12	79.84
				8/18/2015	20.41	80.55
				9/4/2015	19.89	81.07
				1/6/2016	**2.63**	**98.33**
MW-2	100.09	5 - 35	36.30	7/15/2015	30.14	69.95
				8/18/2015	10.95	89.14
				8/19/2015	10.85	89.24
				9/4/2015	15.09	85.00
				1/6/2016	**8.12**	**91.97**
MW-3	100.32	5 - 35	36.30	7/15/2015	12.71	87.61
				8/18/2015	12.60	87.72
				8/20/2015	12.60	87.72
				9/4/2015	12.88	87.44
				1/6/2016	**9.60**	**90.72**
MW-4	94.14	5 - 25	26.10	7/15/2015	-	-
				7/21/2015	24.65	69.49
				7/24/2015	24.16	69.98
				8/2/2015	21.08	73.06
				8/18/2015	20.42	73.72
				9/4/2015	22.92	71.22
				1/6/2016	**5.90**	**88.24**

Notes:
TOC - Top of Casing
All data are reported in feet (ft).
Top of casing elevation set to arbitrary benchmark of 100 ft. Elevations surveyed on August 21, 2015.

WELL NUMBER B-1/MW-1

W&M Environmental Group, LLC
www.wh-m.com

CLIENT MASO Partners, LLC
PROJECT NAME LSI - 1714 Vaughn, Fort Worth
PROJECT NUMBER 1483.002
PROJECT LOCATION 1714 Vaughn Boulevard Fort Worth, Texas
DATE STARTED 7/9/15 **COMPLETED** 7/9/15
GROUND ELEVATION --- **HOLE SIZE** 2"
DRILLING CONTRACTOR SCI, LLC
GROUND WATER LEVELS:
DRILLING METHOD DPT with CME 75; Flight auger to set well
AT TIME OF DRILLING ---
LOGGED BY R. Zapalac **CHECKED BY** N. Cramer
AT END OF DRILLING ---
NOTES NWC of Avenue J and Vaughn Boulevard
AFTER DRILLING ---
LAT 32.72723 **LON** -97.27976

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0.0				0.5 Concrete.		Cement seal
		CL		1.0 Sandy clay, brown, fine and coarse gravel, medium plasticity, medium density, moist.		
		CL		2.5 Silty clay, off-white, medium plasticity, loose, dry.		Bentonite seal
5.0		CH		Clay, tan with gray and white mottles, little fine grained sand, high plasticity, hard, moist.		5'
	B-1 (7.5'-10')			7.5		
		CH		Clay, tan with gray and reddish-brown mottles, little fine grained sand, trace of coarse gravel, high plasticity, moist.		
10.0				10.0	0.1	Screen interval
		ML		Clayey silt, brown with white mottles, non-plastic, very hard, dry.		Sand filter pack
15.0				15.0		
		CL		Silty clay, brown with a trace of gray mottles, low plasticity, very hard, dry.		
20.0	B-1 (21'-22')			21.0		
				22.0 Shale bedrock, dark gray, very hard, dry.		22'
25.0				Boring terminated at 22.0 feet.		
30.0						
35.0						

GENERAL BH / TP / WELL BORING_LOGS_1483.002.GPJ W&M TEMPLATE.GDT 8/12/15

WELL NUMBER B-2/MW-2

W&M Environmental Group, LLC
www.wh-m.com

CLIENT MASO Partners, LLC
PROJECT NAME LSI - 1714 Vaughn, Fort Worth
PROJECT NUMBER 1483.002
PROJECT LOCATION 1714 Vaughn Boulevard Fort Worth, Texas
DATE STARTED 7/9/15 **COMPLETED** 7/9/15
GROUND ELEVATION --- **HOLE SIZE** 2"
DRILLING CONTRACTOR SCI, LLC
GROUND WATER LEVELS:
DRILLING METHOD DPT with CME 75; Flight auger to set well
AT TIME OF DRILLING ---
LOGGED BY R. Zapalac **CHECKED BY** N. Cramer
AT END OF DRILLING ---
NOTES NEC of site
AFTER DRILLING ---
LAT 32.72751 **LON** -97.27969

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0.0						
		GP		0.3 Asphalt.		Cement seal
		GP		1.0 Gravel.		
				2.5 Sandy gravel, tan, trace of clay, non-plastic, loose, dry.		Bentonite seal
		GP		Sandy gravel, tan with black mottles, trace of clay, non-plastic, loose, dry.		
5.0				5.0		5'
		FILL		5.5 Fill, sandy gravel, red with black mottles, non-plastic, loose, dry.		
	B-02 (7.5'-10')	CL		Clay, brown with red and black mottles, high plasticity, medium density, moist, petroleum odor starts at 8ft.	33	
10.0				11.0		
		CL		12.0 Silty clay, tan, low plasticity, moist, slight petroleum odor.		
				Silty clay, tan with gray mottles, medium plasticity, very hard, moist.		
15.0		CL				Screen interval
	B-02 (17.5'-10')					Sand filter pack
20.0				20.0		
		ML		Clayey silt, tan, low plasticity, very hard, dry.		
				23.0		
25.0		CL		Silty clay, light brown, medium plasticity, hard, dry.		
30.0				31.0		
				32.0 Weathered shale, dark gray, dry.		
				Shale bedrock, gray, dry.		
35.0				35.0		35'
				Boring terminated at 35.0 feet.		

STATE OF TEXAS
NICHOLAS CRAMER
GEOLOGY
11561
LICENSED
PROFESSIONAL GEOSCIENTIST
8/12/16

GENERAL BH / TP / WELL BORING_LOGS_1483.002.GPJ W&M TEMPLATE.GDT 8/12/15

WELL NUMBER B-3/MW-3

W&M Environmental Group, LLC
www.wh-m.com

CLIENT MASO Partners, LLC
PROJECT NAME LSI - 1714 Vaughn, Fort Worth
PROJECT NUMBER 1483.002
PROJECT LOCATION 1714 Vaughn Boulevard Fort Worth, Texas
DATE STARTED 7/9/15 **COMPLETED** 7/9/15
GROUND ELEVATION --- **HOLE SIZE** 2"
DRILLING CONTRACTOR SCI, LLC
GROUND WATER LEVELS:
DRILLING METHOD DPT with CME 75; Flight auger to set well
▽ **AT TIME OF DRILLING** 11.5 ft
LOGGED BY R. Zapalac **CHECKED BY** N. Cramer
AT END OF DRILLING ---
NOTES ---
AFTER DRILLING ---
LAT 32.72754 **LON** -97.27943

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0.0						
		GP		0.3 Asphalt.		Cement seal
				1.0 Gravel base, tan and white mottles.		
		CL		Silty clay, brown, trace gravel, low plasticity, hard, dry.	0.2	Bentonite seal
5.0				5.0		
		CL		Silty clay, brown, trace coarse gravel, low plasticity, hard, dry.	1.1	5'
				7.5		
	B-3 (7.5'-10')	CL		Silty clay, dark gray, trace of fine gravel, medium plasticity, moist.		
				9.0		
10.0		CL		Sandy clay, tan, trace of fine gravel, low plasticity, dry.	1.6	
				10.0		
		CL		Silty clay, tan, low plasticity, loose, wet. Water from 11.5 to 12 feet bgs. ▽	1.2	
				14.0		
15.0		CL		15.0 Slity clay, brown with gray mottles, trace of fine gravel, medium plasticity, hard, moist.	1.4	Screen interval
				Clayey silt, light brown with tan and white mottles, low plasticity, hard, dry, refusal at 30 feet.	0.8	
20.0					0.7	Sand filter pack
		ML			1.1	
25.0					0.9	
30.0				30.0		
				Weathered shale, gray, dry.		
				31.0		
				Unweathered shale, gray, dry.		
				34.0		
35.0				35.0 Limestone bedrock.		35'
				Boring terminated at 35.0 feet.		

STATE OF TEXAS
NICHOLAS CRAMER
GEOLOGY
11561
PROFESSIONAL LICENSED GEOSCIENTIST

GENERAL BH / TP / WELL BORING_LOGS_1483.002.GPJ W&M TEMPLATE.GDT 8/12/15

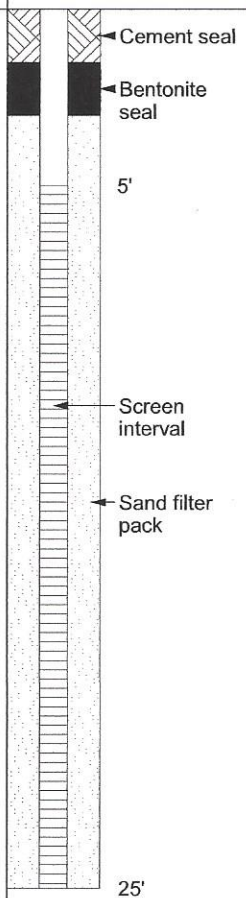
WELL NUMBER B-4/MW-4

W&M Environmental Group, LLC
www.wh-m.com

CLIENT MASO Partners, LLC
PROJECT NAME LSI - 1714 Vaughn, Fort Worth
PROJECT NUMBER 1483.002
PROJECT LOCATION 1714 Vaughn Boulevard Fort Worth, Texas
DATE STARTED 7/9/15 **COMPLETED** 7/9/15
GROUND ELEVATION --- **HOLE SIZE** 2"
DRILLING CONTRACTOR SCI, LLC
GROUND WATER LEVELS:
DRILLING METHOD DPT with CME 75; Flight auger to set well
AT TIME OF DRILLING ---
LOGGED BY R. Zapalac **CHECKED BY** N. Cramer
AT END OF DRILLING ---
NOTES NWC of site
AFTER DRILLING ---
LAT 32.72739 **LON** -97.2803

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0	B-3 (0'-3')			0.8 Topsoil, coarse gravel.	
		SP		Coarse sand, tan, trace of coarse gravel, non-plastic, loose, moist, low recovery from 3 to 5 feet.	
5.0				5.0	
		CH		Clay, tan with white mottles, fine gravel inclusions, high plasticity, hard, moist.	
				7.5	1.1
		CL		Silty clay, light brown and gray with white mottles, coarse and fine gravel inclusions, low plasticity, hard, dry.	
10.0				10.0	
	B-3 (12.5'-15')	CL		Silty clay, light brown and gray with white mottles, silty, coarse and fine gravel inclusions, low plasticity, very hard, dry, thinly bedded layer of red gravel at 10.25 feet.	0.7
15.0				15.0	
		ML		Clayey silt, light brown with tan and white mottles, trace of fine gravel, low plasticity, very hard, dry.	1.2
					1.2
20.0					1.1
				22.0	
				23.0 Weathered shale, hard, dry.	0.9
				Shale bedrock, hard, dry.	
25.0				25.0	
				Boring terminated at 25.0 feet.	0.8
30.0					
35.0					

WELL DIAGRAM



GENERAL BH / TP / WELL BORING_LOGS_1483.002.GPJ W&M TEMPLATE.GDT 8/12/15

SAMPLING PROCEDURES
(NOT APPLICABLE)

APPENDIX 5

LABORATORY DATA PACKAGES

APPENDIX 6

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

July 20, 2015

Paul Rodusky
W&M Environmental Group, L.L.C
6825 Manhattan Blvd.
Suite 125
Fort Worth, TX 76120

Work Order: **HS15070491**

Laboratory Results for: **1483.001**

Dear Paul,

ALS Environmental received 8 sample(s) on Jul 10, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Bernadette A. Fini
Project Manager

Client:	W&M Environmental Group, L.L.C	**TRRP Laboratory Data Package Cover Page**
Project:	1483.001	
WorkOrder:	**HS15070491**	

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:

a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:

a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

ALS Group USA, Corp Date: 20-Jul-15

Client:	W&M Environmental Group, L.L.C
Project:	1483.001
WorkOrder:	**HS15070491**

TRRP Laboratory Data Package Cover Page

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bernadette A. Fini
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 07/20/2015					
Project Name: 1483.001			Laboratory Job Number: HS15070491					
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 95204, 95224, R257760, R258034					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?		X			1
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?		X			2
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within laboratory QC limits?		X			4
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				5

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 07/20/2015				
Project Name: 1483.001			Laboratory Job Number: HS15070491				
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 95204, 95224, R257760, R258034				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?		X			6
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Laboratory Group		LRC Date: 07/20/2015
Project Name: 1483.001		Laboratory Job Number: HS15070491
Reviewer Name: Bernadette Fini		Prep Batch Number(s): 95204, 95224, R257760, R258034
ER#[5]	**Description**	
1	Batch 95224, Organochlorine Pesticides Method SW8081; The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS.	
2	Batch 95224, Organochlorine Pesticides Method SW8081; The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the MS/MSD.	
3	Batch 95224, Organochlorine Pesticides Method SW8081, sample B-3/TMW-3 7.5-10'; MS and/or MSD recovered outside the control limits for various compounds due to sample matrix interference. Batch R257760, Volatile Organics Method SW8260, sample HS15070480-01, MS and MSD were performed on unrelated sample.	
4	Batch 95224, Organochlorine Pesticides Method SW8081, sample B-3/TMW-3 7.5-10', MS/MSD RPD recovered above the RPD limits for surrogate Tetrachloro-m-xylene Batch R257760, Volatile Organics Method SW8260, sample HS15070480-01; MS/MSD RPD was performed on unrelated sample.	
5	With the exception of cyclohexane, ALS is NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package. Because TCEQ does not offer accreditation for this compound, the results are flagged with n.	
6	Batch 95224, Organochlorine Pesticides Method SW8081: Endrin results are P qualified in sample B-3/TMW-3 7.5-10 MSD'. This indicates possible coelution or matrix interference on the confirming column.	

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Work Order: HS15070491

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15070491-01	B-1/TMW-1 7.5-10'	Soil		09-Jul-2015 08:15	10-Jul-2015 13:15	☐
HS15070491-02	DUP-1	Soil		09-Jul-2015 08:15	10-Jul-2015 13:15	☑
HS15070491-03	B-1/TMW-1 21-22'	Soil		09-Jul-2015 09:15	10-Jul-2015 13:15	☑
HS15070491-04	B-2/TMW-2 7.5-10'	Soil		09-Jul-2015 10:15	10-Jul-2015 13:15	☐
HS15070491-05	B-2/TMW-2 17.5-20'	Soil		09-Jul-2015 10:25	10-Jul-2015 13:15	☑
HS15070491-06	B-3/TMW-3 7.5-10'	Soil		09-Jul-2015 14:05	10-Jul-2015 13:15	☐
HS15070491-07	B-4/TMW-4 0-3'	Soil		09-Jul-2015 12:50	10-Jul-2015 13:15	☑
HS15070491-08	B-4/TMW-4 12.5-15'	Soil		09-Jul-2015 13:15	10-Jul-2015 13:15	☐

Client: W&M Environmental Group, L.L.C **ANALYTICAL REPORT**
Project: 1483.001 WorkOrder:HS15070491
Sample ID: B-1/TMW-1 7.5-10' Lab ID:HS15070491-01
Collection Date: 09-Jul-2015 08:15 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,1,2,2-Tetrachloroethane	U		0.0010	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00088	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,1,2-Trichloroethane	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,1-Dichloroethane	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,1-Dichloroethene	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,2,4-Trichlorobenzene	U		0.0014	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,2-Dibromo-3-chloropropane	U		0.0020	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,2-Dibromoethane	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,2-Dichlorobenzene	U		0.0012	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,2-Dichloroethane	U		0.00075	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,2-Dichloropropane	U		0.0010	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,3-Dichlorobenzene	U		0.0014	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
1,4-Dichlorobenzene	U		0.0012	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
2-Butanone	U		0.0016	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
2-Hexanone	U		0.0018	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
4-Methyl-2-pentanone	U		0.0025	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
Acetone	U		0.0039	0.025	mg/Kg-dry	1	13-Jul-2015 10:25
Benzene	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Bromodichloromethane	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Bromoform	U		0.00075	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Bromomethane	U		0.0012	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
Carbon disulfide	U		0.00075	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
Carbon tetrachloride	U		0.00075	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Chlorobenzene	U		0.00075	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Chloroethane	U		0.0010	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
Chloroform	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Chloromethane	U		0.00062	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
cis-1,2-Dichloroethene	U		0.0010	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
cis-1,3-Dichloropropene	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Cyclohexane	U	n	0.0012	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Dibromochloromethane	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Dichlorodifluoromethane	U		0.00088	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Ethylbenzene	U		0.00088	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Isopropylbenzene	U		0.0011	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
m,p-Xylene	U		0.0020	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
Methyl acetate	U		0.00088	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Methyl tert-butyl ether	U		0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Methylcyclohexane	U		0.0015	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-1/TMW-1 7.5-10'
Collection Date: 09-Jul-2015 08:15

ANALYTICAL REPORT
WorkOrder:HS15070491
Lab ID:HS15070491-01
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylene chloride		U	0.0012	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
o-Xylene		U	0.0012	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Styrene		U	0.00088	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Tetrachloroethene		U	0.00088	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Toluene		U	0.00075	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
trans-1,2-Dichloroethene		U	0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
trans-1,3-Dichloropropene		U	0.00075	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Trichloroethene		U	0.00075	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Trichlorofluoromethane		U	0.00062	0.0062	mg/Kg-dry	1	13-Jul-2015 10:25
Vinyl chloride		U	0.0010	0.0025	mg/Kg-dry	1	13-Jul-2015 10:25
Xylenes, Total		U	0.0030	0.012	mg/Kg-dry	1	13-Jul-2015 10:25
Surr: 1,2-Dichloroethane-d4	*78.8*			*70-128*	*%REC*	*1*	*13-Jul-2015 10:25*
Surr: 4-Bromofluorobenzene	*98.2*			*73-126*	*%REC*	*1*	*13-Jul-2015 10:25*
Surr: Dibromofluoromethane	*85.7*			*71-128*	*%REC*	*1*	*13-Jul-2015 10:25*
Surr: Toluene-d8	*101*			*73-127*	*%REC*	*1*	*13-Jul-2015 10:25*
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 13-Jul-2015		Analyst: JKP
nC6 to nC12		U	12	62	mg/Kg-dry	1	15-Jul-2015 20:10
>nC12 to nC28		U	12	62	mg/Kg-dry	1	15-Jul-2015 20:10
>nC28 to nC35		U	12	62	mg/Kg-dry	1	15-Jul-2015 20:10
Total Petroleum Hydrocarbon		U	12	62	mg/Kg-dry	1	15-Jul-2015 20:10
Surr: 2-Fluorobiphenyl	*128*			*70-130*	*%REC*	*1*	*15-Jul-2015 20:10*
Surr: Trifluoromethyl benzene	*118*			*70-130*	*%REC*	*1*	*15-Jul-2015 20:10*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**20.0**		**0.0100**	**0.0100**	**wt%**	1	16-Jul-2015 16:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C **ANALYTICAL REPORT**
Project: 1483.001 WorkOrder:HS15070491
Sample ID: B-2/TMW-2 7.5-10' Lab ID:HS15070491-04
Collection Date: 09-Jul-2015 10:15 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,1,2,2-Tetrachloroethane	U		0.00089	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00078	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,1,2-Trichloroethane	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,1-Dichloroethane	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,1-Dichloroethene	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,2,4-Trichlorobenzene	U		0.0012	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,2-Dibromo-3-chloropropane	U		0.0018	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,2-Dibromoethane	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,2-Dichlorobenzene	U		0.0011	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,2-Dichloroethane	U		0.00067	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,2-Dichloropropane	U		0.00089	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,3-Dichlorobenzene	U		0.0012	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
1,4-Dichlorobenzene	U		0.0011	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
2-Butanone	U		0.0014	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
2-Hexanone	U		0.0016	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
4-Methyl-2-pentanone	U		0.0022	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
Acetone	**0.049**		**0.0035**	**0.022**	**mg/Kg-dry**	1	13-Jul-2015 10:48
Benzene	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Bromodichloromethane	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Bromoform	U		0.00067	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Bromomethane	U		0.0011	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
Carbon disulfide	U		0.00067	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
Carbon tetrachloride	U		0.00067	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Chlorobenzene	U		0.00067	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Chloroethane	U		0.00089	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
Chloroform	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Chloromethane	U		0.00056	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
cis-1,2-Dichloroethene	U		0.00089	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
cis-1,3-Dichloropropene	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Cyclohexane	U	n	0.0011	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Dibromochloromethane	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Dichlorodifluoromethane	U		0.00078	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Ethylbenzene	U		0.00078	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Isopropylbenzene	U		0.0010	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
m,p-Xylene	U		0.0018	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
Methyl acetate	U		0.00078	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Methyl tert-butyl ether	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Methylcyclohexane	**0.015**		**0.0013**	**0.0056**	**mg/Kg-dry**	1	13-Jul-2015 10:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-2/TMW-2 7.5-10'
Collection Date: 09-Jul-2015 10:15

ANALYTICAL REPORT
WorkOrder:HS15070491
Lab ID:HS15070491-04
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylene chloride	U		0.0011	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
o-Xylene	U		0.0011	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Styrene	U		0.00078	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Tetrachloroethene	U		0.00078	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Toluene	U		0.00067	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
trans-1,2-Dichloroethene	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
trans-1,3-Dichloropropene	U		0.00067	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Trichloroethene	U		0.00067	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Trichlorofluoromethane	U		0.00056	0.0056	mg/Kg-dry	1	13-Jul-2015 10:48
Vinyl chloride	U		0.00089	0.0022	mg/Kg-dry	1	13-Jul-2015 10:48
Xylenes, Total	U		0.0027	0.011	mg/Kg-dry	1	13-Jul-2015 10:48
Surr: 1,2-Dichloroethane-d4	*79.1*			*70-128*	*%REC*	*1*	*13-Jul-2015 10:48*
Surr: 4-Bromofluorobenzene	*97.3*			*73-126*	*%REC*	*1*	*13-Jul-2015 10:48*
Surr: Dibromofluoromethane	*89.4*			*71-128*	*%REC*	*1*	*13-Jul-2015 10:48*
Surr: Toluene-d8	*103*			*73-127*	*%REC*	*1*	*13-Jul-2015 10:48*
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 13-Jul-2015		Analyst: JKP
nC6 to nC12	**26**	J	**12**	**62**	**mg/Kg-dry**	1	15-Jul-2015 20:40
>nC12 to nC28	U		12	62	mg/Kg-dry	1	15-Jul-2015 20:40
>nC28 to nC35	U		12	62	mg/Kg-dry	1	15-Jul-2015 20:40
Total Petroleum Hydrocarbon	**26.0**	J	**12**	**62**	**mg/Kg-dry**	1	15-Jul-2015 20:40
Surr: 2-Fluorobiphenyl	*125*			*70-130*	*%REC*	*1*	*15-Jul-2015 20:40*
Surr: Trifluoromethyl benzene	*121*			*70-130*	*%REC*	*1*	*15-Jul-2015 20:40*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**19.3**		**0.0100**	**0.0100**	**wt%**	1	16-Jul-2015 16:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-3/TMW-3 7.5-10'
Collection Date: 09-Jul-2015 14:05

ANALYTICAL REPORT
WorkOrder:HS15070491
Lab ID:HS15070491-06
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,1,2,2-Tetrachloroethane	U		0.00083	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00073	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,1,2-Trichloroethane	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,1-Dichloroethane	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,1-Dichloroethene	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,2,4-Trichlorobenzene	U		0.0011	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,2-Dibromo-3-chloropropane	U		0.0017	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,2-Dibromoethane	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,2-Dichlorobenzene	U		0.0010	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,2-Dichloroethane	U		0.00062	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,2-Dichloropropane	U		0.00083	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,3-Dichlorobenzene	U		0.0011	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
1,4-Dichlorobenzene	U		0.0010	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
2-Butanone	U		0.0014	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
2-Hexanone	U		0.0015	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
4-Methyl-2-pentanone	U		0.0021	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
Acetone	U		0.0032	0.021	mg/Kg-dry	1	13-Jul-2015 11:12
Benzene	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Bromodichloromethane	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Bromoform	U		0.00062	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Bromomethane	U		0.0010	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
Carbon disulfide	U		0.00062	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
Carbon tetrachloride	U		0.00062	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Chlorobenzene	U		0.00062	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Chloroethane	U		0.00083	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
Chloroform	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Chloromethane	U		0.00052	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
cis-1,2-Dichloroethene	U		0.00083	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
cis-1,3-Dichloropropene	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Cyclohexane	U	n	0.0010	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Dibromochloromethane	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Dichlorodifluoromethane	U		0.00073	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Ethylbenzene	U		0.00073	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Isopropylbenzene	U		0.00094	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
m,p-Xylene	U		0.0017	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
Methyl acetate	U		0.00073	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Methyl tert-butyl ether	U		0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Methylcyclohexane	U		0.0012	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-3/TMW-3 7.5-10'
Collection Date: 09-Jul-2015 14:05

ANALYTICAL REPORT
WorkOrder:HS15070491
Lab ID:HS15070491-06
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylene chloride		U	0.0010	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
o-Xylene		U	0.0010	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Styrene		U	0.00073	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Tetrachloroethene		U	0.00073	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Toluene		U	0.00062	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
trans-1,2-Dichloroethene		U	0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
trans-1,3-Dichloropropene		U	0.00062	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Trichloroethene		U	0.00062	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Trichlorofluoromethane		U	0.00052	0.0052	mg/Kg-dry	1	13-Jul-2015 11:12
Vinyl chloride		U	0.00083	0.0021	mg/Kg-dry	1	13-Jul-2015 11:12
Xylenes, Total		U	0.0025	0.010	mg/Kg-dry	1	13-Jul-2015 11:12
Surr: 1,2-Dichloroethane-d4	*83.5*			*70-128*	*%REC*	*1*	*13-Jul-2015 11:12*
Surr: 4-Bromofluorobenzene	*96.1*			*73-126*	*%REC*	*1*	*13-Jul-2015 11:12*
Surr: Dibromofluoromethane	*87.5*			*71-128*	*%REC*	*1*	*13-Jul-2015 11:12*
Surr: Toluene-d8	*101*			*73-127*	*%REC*	*1*	*13-Jul-2015 11:12*
ORGANOCHLORINE PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3546 / 14-Jul-2015		Analyst: STH
4,4´-DDD		U	0.57	3.8	ug/Kg-dry	1	16-Jul-2015 14:34
4,4´-DDE		U	0.57	3.8	ug/Kg-dry	1	16-Jul-2015 14:34
4,4´-DDT		U	0.57	3.8	ug/Kg-dry	1	16-Jul-2015 14:34
Aldrin		U	0.34	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
alpha-BHC		U	0.34	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
beta-BHC		U	0.34	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
Chlordane		U	2.3	19	ug/Kg-dry	1	16-Jul-2015 14:34
delta-BHC		U	0.23	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
Dieldrin	**21**		**0.57**	**3.8**	**ug/Kg-dry**	1	16-Jul-2015 14:34
Endosulfan I		U	0.34	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
Endosulfan II		U	0.68	3.8	ug/Kg-dry	1	16-Jul-2015 14:34
Endosulfan sulfate		U	0.68	3.8	ug/Kg-dry	1	16-Jul-2015 14:34
Endrin		U	0.68	3.8	ug/Kg-dry	1	16-Jul-2015 14:34
Endrin aldehyde		U	0.68	3.8	ug/Kg-dry	1	16-Jul-2015 14:34
Endrin ketone		U	0.68	3.8	ug/Kg-dry	1	16-Jul-2015 14:34
gamma-BHC		U	0.23	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
Heptachlor		U	0.34	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
Heptachlor epoxide		U	0.34	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
Methoxychlor		U	3.9	19	ug/Kg-dry	1	16-Jul-2015 14:34
Toxaphene		U	5.5	19	ug/Kg-dry	1	16-Jul-2015 14:34
Surr: Decachlorobiphenyl	*78.5*			*59-144*	*%REC*	*1*	*16-Jul-2015 14:34*
Surr: Tetrachloro-m-xylene	*59.4*			*56.9-130*	*%REC*	*1*	*16-Jul-2015 14:34*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-3/TMW-3 7.5-10'
Collection Date: 09-Jul-2015 14:05

ANALYTICAL REPORT
WorkOrder:HS15070491
Lab ID:HS15070491-06
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
MISCELLANEOUS PESTICIDES BY SW8081B		**Method:SW8081**		Prep:SW3546 / 14-Jul-2015			Analyst: STH
alpha-Chlordane		U	0.23	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
gamma-Chlordane		U	0.23	1.9	ug/Kg-dry	1	16-Jul-2015 14:34
TEXAS TPH BY TX1005		**Method:TX1005**		Prep:TX1005PR / 13-Jul-2015			Analyst: JKP
nC6 to nC12		U	11	57	mg/Kg-dry	1	14-Jul-2015 16:19
>nC12 to nC28		U	11	57	mg/Kg-dry	1	14-Jul-2015 16:19
>nC28 to nC35		U	11	57	mg/Kg-dry	1	14-Jul-2015 16:19
Total Petroleum Hydrocarbon		U	11	57	mg/Kg-dry	1	14-Jul-2015 16:19
Surr: 2-Fluorobiphenyl	*87.7*			*70-130*	*%REC*	*1*	*14-Jul-2015 16:19*
Surr: Trifluoromethyl benzene	*87.4*			*70-130*	*%REC*	*1*	*14-Jul-2015 16:19*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**12.5**		**0.0100**	**0.0100**	**wt%**	1	16-Jul-2015 16:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C **ANALYTICAL REPORT**
Project: 1483.001 WorkOrder:HS15070491
Sample ID: B-4/TMW-4 12.5-15' Lab ID:HS15070491-08
Collection Date: 09-Jul-2015 13:15 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,1,2,2-Tetrachloroethane	U		0.00097	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00085	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,1,2-Trichloroethane	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,1-Dichloroethane	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,1-Dichloroethene	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,2,4-Trichlorobenzene	U		0.0013	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,2-Dibromo-3-chloropropane	U		0.0019	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,2-Dibromoethane	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,2-Dichlorobenzene	U		0.0012	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,2-Dichloroethane	U		0.00073	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,2-Dichloropropane	U		0.00097	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,3-Dichlorobenzene	U		0.0013	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
1,4-Dichlorobenzene	U		0.0012	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
2-Butanone	U		0.0016	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
2-Hexanone	U		0.0017	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
4-Methyl-2-pentanone	U		0.0024	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
Acetone	U		0.0038	0.024	mg/Kg-dry	1	13-Jul-2015 11:36
Benzene	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Bromodichloromethane	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Bromoform	U		0.00073	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Bromomethane	U		0.0012	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
Carbon disulfide	U		0.00073	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
Carbon tetrachloride	U		0.00073	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Chlorobenzene	U		0.00073	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Chloroethane	U		0.00097	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
Chloroform	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Chloromethane	U		0.00061	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
cis-1,2-Dichloroethene	U		0.00097	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
cis-1,3-Dichloropropene	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Cyclohexane	U	n	0.0012	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Dibromochloromethane	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Dichlorodifluoromethane	U		0.00085	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Ethylbenzene	U		0.00085	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Isopropylbenzene	U		0.0011	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
m,p-Xylene	U		0.0019	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
Methyl acetate	U		0.00085	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Methyl tert-butyl ether	U		0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Methylcyclohexane	U		0.0015	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-4/TMW-4 12.5-15'
Collection Date: 09-Jul-2015 13:15

ANALYTICAL REPORT
WorkOrder:HS15070491
Lab ID:HS15070491-08
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylene chloride		U	0.0012	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
o-Xylene		U	0.0012	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Styrene		U	0.00085	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Tetrachloroethene		U	0.00085	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Toluene		U	0.00073	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
trans-1,2-Dichloroethene		U	0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
trans-1,3-Dichloropropene		U	0.00073	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Trichloroethene		U	0.00073	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Trichlorofluoromethane		U	0.00061	0.0061	mg/Kg-dry	1	13-Jul-2015 11:36
Vinyl chloride		U	0.00097	0.0024	mg/Kg-dry	1	13-Jul-2015 11:36
Xylenes, Total		U	0.0029	0.012	mg/Kg-dry	1	13-Jul-2015 11:36
Surr: 1,2-Dichloroethane-d4	*87.1*			*70-128*	*%REC*	*1*	*13-Jul-2015 11:36*
Surr: 4-Bromofluorobenzene	*96.3*			*73-126*	*%REC*	*1*	*13-Jul-2015 11:36*
Surr: Dibromofluoromethane	*90.8*			*71-128*	*%REC*	*1*	*13-Jul-2015 11:36*
Surr: Toluene-d8	*101*			*73-127*	*%REC*	*1*	*13-Jul-2015 11:36*
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 13-Jul-2015		Analyst: JKP
nC6 to nC12		U	13	63	mg/Kg-dry	1	15-Jul-2015 21:10
>nC12 to nC28		U	13	63	mg/Kg-dry	1	15-Jul-2015 21:10
>nC28 to nC35		U	13	63	mg/Kg-dry	1	15-Jul-2015 21:10
Total Petroleum Hydrocarbon		U	13	63	mg/Kg-dry	1	15-Jul-2015 21:10
Surr: 2-Fluorobiphenyl	*120*			*70-130*	*%REC*	*1*	*15-Jul-2015 21:10*
Surr: Trifluoromethyl benzene	*123*			*70-130*	*%REC*	*1*	*15-Jul-2015 21:10*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**21.8**		**0.0100**	**0.0100**	**wt%**	1	16-Jul-2015 16:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 95204		**Test Name :** TEXAS TPH BY TX1005		**Matrix:** Soil		
HS15070491-01	B-1/TMW-1 7.5-10'	09 Jul 2015 08:15		13 Jul 2015 16:14	15 Jul 2015 20:10	1
HS15070491-04	B-2/TMW-2 7.5-10'	09 Jul 2015 10:15		13 Jul 2015 16:14	15 Jul 2015 20:40	1
HS15070491-06	B-3/TMW-3 7.5-10'	09 Jul 2015 14:05		13 Jul 2015 16:14	14 Jul 2015 16:19	1
HS15070491-08	B-4/TMW-4 12.5-15'	09 Jul 2015 13:15		13 Jul 2015 16:14	15 Jul 2015 21:10	1
Batch ID 95224		**Test Name :** MISCELLANEOUS PESTICIDES BY SW8081B		**Matrix:** Soil		
HS15070491-06	B-3/TMW-3 7.5-10'	09 Jul 2015 14:05		14 Jul 2015 16:55	16 Jul 2015 14:34	1
HS15070491-06	B-3/TMW-3 7.5-10'	09 Jul 2015 14:05		14 Jul 2015 16:55	16 Jul 2015 14:34	1
HS15070491-06	B-3/TMW-3 7.5-10'	09 Jul 2015 14:05		14 Jul 2015 16:55	16 Jul 2015 14:34	1
HS15070491-06	B-3/TMW-3 7.5-10'	09 Jul 2015 14:05		14 Jul 2015 16:55	16 Jul 2015 14:34	1
Batch ID R257760		**Test Name :** VOLATILES BY SW8260C		**Matrix:** Soil		
HS15070491-01	B-1/TMW-1 7.5-10'	09 Jul 2015 08:15			13 Jul 2015 10:25	1
HS15070491-04	B-2/TMW-2 7.5-10'	09 Jul 2015 10:15			13 Jul 2015 10:48	1
HS15070491-06	B-3/TMW-3 7.5-10'	09 Jul 2015 14:05			13 Jul 2015 11:12	1
HS15070491-08	B-4/TMW-4 12.5-15'	09 Jul 2015 13:15			13 Jul 2015 11:36	1
Batch ID R258034		**Test Name :** MOISTURE		**Matrix:** Soil		
HS15070491-01	B-1/TMW-1 7.5-10'	09 Jul 2015 08:15			16 Jul 2015 16:15	1
HS15070491-04	B-2/TMW-2 7.5-10'	09 Jul 2015 10:15			16 Jul 2015 16:15	1
HS15070491-06	B-3/TMW-3 7.5-10'	09 Jul 2015 14:05			16 Jul 2015 16:15	1
HS15070491-08	B-4/TMW-4 12.5-15'	09 Jul 2015 13:15			16 Jul 2015 16:15	1

WorkOrder: HS15070491
InstrumentID: ECD_11
Test Code: 8081_S
Test Number: SW8081
Test Name: Organochlorine Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** ug/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	4,4´-DDD	72-54-8	0.83	0.82	0.50	3.3
A	4,4´-DDE	72-55-9	0.83	0.79	0.50	3.3
A	4,4´-DDT	50-29-3	0.83	0.78	0.50	3.3
A	Aldrin	309-00-2	0.42	0.39	0.30	1.7
A	alpha-BHC	319-84-6	0.42	0.39	0.30	1.7
A	beta-BHC	319-85-7	0.42	0.48	0.30	1.7
A	Chlordane	57-74-9	8.3	7.4	2.0	17
A	delta-BHC	319-86-8	0.42	0.23	0.20	1.7
A	Dieldrin	60-57-1	0.83	0.78	0.50	3.3
A	Endosulfan I	959-98-8	0.42	0.41	0.30	1.7
A	Endosulfan II	33213-65-9	0.83	0.83	0.60	3.3
A	Endosulfan sulfate	1031-07-8	0.83	0.78	0.60	3.3
A	Endrin	72-20-8	0.83	0.78	0.60	3.3
A	Endrin aldehyde	7421-93-4	0.83	0.92	0.60	3.3
A	Endrin ketone	53494-70-5	0.83	0.95	0.60	3.3
A	gamma-BHC	58-89-9	0.42	0.39	0.20	1.7
A	Heptachlor	76-44-8	0.42	0.21	0.30	1.7
A	Heptachlor epoxide	1024-57-3	0.42	0.41	0.30	1.7
A	Methoxychlor	72-43-5	8.3	5.5	3.4	17
A	Toxaphene	8001-35-2	0	0	4.8	17
S	Decachlorobiphenyl	2051-24-3	0	0	0	0
S	Tetrachloro-m-xylene	877-09-8	0	0	0	0

WorkOrder: HS15070491
InstrumentID: ECD_11
Test Code: 8081-MISC._S
Test Number: SW8081
Test Name: Miscellaneous Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** ug/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	alpha-Chlordane	5103-71-9	0.42	0.42	0.20	1.7
A	gamma-Chlordane	5566-34-7	0.42	0.40	0.20	1.7

WorkOrder: HS15070491
InstrumentID: FID-13
Test Code: TX1005_S_REV3
Test Number: TX1005
Test Name: Texas TPH by TX1005

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	nC6 to nC12	TPHGRO	25	26	10	50
A	>nC12 to nC28	TPHDRO	25	27	10	50
A	>nC28 to nC35	10W40MOTOROIL	25	27	10	50
A	Total Petroleum Hydrocarbon	TPH	50	53	10	50
S	2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Trifluoromethyl benzene	98-08-8	0	0	0	0

WorkOrder: HS15070491
InstrumentID: VOA5
Test Code: 8260_S
Test Number: SW8260
Test Name: Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,1,1-Trichloroethane	71-55-6	0.0012	0.00083	0.00050	0.0050
A	1,1,2,2-Tetrachloroethane	79-34-5	0.0012	0.0011	0.00080	0.0050
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.0012	0.0027	0.00070	0.0050
A	1,1,2-Trichloroethane	79-00-5	0.0012	0.00097	0.00050	0.0050
A	1,1-Dichloroethane	75-34-3	0.0012	0.0011	0.00050	0.0050
A	1,1-Dichloroethene	75-35-4	0.0012	0.00080	0.00050	0.0050
A	1,2,4-Trichlorobenzene	120-82-1	0.0012	0.0012	0.0011	0.0050
A	1,2-Dibromo-3-chloropropane	96-12-8	0.0012	0.0012	0.0016	0.0050
A	1,2-Dibromoethane	106-93-4	0.0012	0.0011	0.00050	0.0050
A	1,2-Dichlorobenzene	95-50-1	0.0012	0.0011	0.0010	0.0050
A	1,2-Dichloroethane	107-06-2	0.0012	0.0012	0.00060	0.0050
A	1,2-Dichloropropane	78-87-5	0.0012	0.0010	0.00080	0.0050
A	1,3-Dichlorobenzene	541-73-1	0.0012	0.0010	0.0011	0.0050
A	1,4-Dichlorobenzene	106-46-7	0.0012	0.0011	0.0010	0.0050
A	2-Butanone	78-93-3	0.0025	0.0026	0.0013	0.010
A	2-Hexanone	591-78-6	0.0025	0.0023	0.0014	0.010
A	4-Methyl-2-pentanone	108-10-1	0.0025	0.0020	0.0020	0.010
A	Acetone	67-64-1	0.0025	0.0028	0.0031	0.020
A	Benzene	71-43-2	0.0012	0.0010	0.00050	0.0050
A	Bromodichloromethane	75-27-4	0.0012	0.00096	0.00050	0.0050
A	Bromoform	75-25-2	0.0012	0.0011	0.00060	0.0050
A	Bromomethane	74-83-9	0.0012	0.0018	0.0010	0.010
A	Carbon disulfide	75-15-0	0.0025	0.0017	0.00060	0.010
A	Carbon tetrachloride	56-23-5	0.0012	0.0037	0.00060	0.0050
A	Chlorobenzene	108-90-7	0.0012	0.0011	0.00060	0.0050
A	Chloroethane	75-00-3	0.0012	0.00098	0.00080	0.010
A	Chloroform	67-66-3	0.0012	0.0011	0.00050	0.0050
A	Chloromethane	74-87-3	0.0012	0.0012	0.00050	0.010
A	cis-1,2-Dichloroethene	156-59-2	0.0012	0.0011	0.00080	0.0050
A	cis-1,3-Dichloropropene	10061-01-5	0.0012	0.00090	0.00050	0.0050
A	Cyclohexane	110-82-7	0.0012	0.0027	0.0010	0.0050
A	Dibromochloromethane	124-48-1	0.0012	0.00099	0.00050	0.0050
A	Dichlorodifluoromethane	75-71-8	0.0012	0.0024	0.00070	0.0050
A	Ethylbenzene	100-41-4	0.0012	0.00096	0.00070	0.0050
A	Isopropylbenzene	98-82-8	0.0012	0.00087	0.00090	0.0050
A	m,p-Xylene	179601-23-1	0.0025	0.0021	0.0016	0.010
A	Methyl acetate	79-20-9	0.0012	0.0011	0.00070	0.0050
A	Methyl tert-butyl ether	1634-04-4	0.0012	0.0011	0.00050	0.0050
A	Methylcyclohexane	108-87-2	0.0012	0.0027	0.0012	0.0050
A	Methylene chloride	75-09-2	0.0012	0.0018	0.0010	0.010
A	o-Xylene	95-47-6	0.0012	0.0010	0.0010	0.0050

WorkOrder: HS15070491
InstrumentID: VOA5
Test Code: 8260_S
Test Number: SW8260
Test Name: Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Styrene	100-42-5	0.0012	0.00097	0.00070	0.0050
A	Tetrachloroethene	127-18-4	0.0012	0.00079	0.00070	0.0050
A	Toluene	108-88-3	0.0012	0.0018	0.00060	0.0050
A	trans-1,2-Dichloroethene	156-60-5	0.0012	0.0010	0.00050	0.0050
A	trans-1,3-Dichloropropene	10061-02-6	0.0012	0.0027	0.00060	0.0050
A	Trichloroethene	79-01-6	0.0012	0.00087	0.00060	0.0050
A	Trichlorofluoromethane	75-69-4	0.0012	0.0028	0.00050	0.0050
A	Vinyl chloride	75-01-4	0.0012	0.00088	0.00080	0.0020
A	Xylenes, Total	1330-20-7	0.0038	0.0031	0.0024	0.010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0
S	4-Bromofluorobenzene	460-00-4	0	0	0	0
S	Dibromofluoromethane	1868-53-7	0	0	0	0
S	Toluene-d8	2037-26-5	0	0	0	0

WorkOrder: HS15070491
InstrumentID: Balance1
Test Code: MOIST_SW3550
Test Number: SW3550
Test Name: Moisture

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** wt%

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Percent Moisture	MOIST	0	0	0.0100	0.0100

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: 95224 **Instrument: ECD_11** **Method: SW8081**

MBLK Sample ID: **MBLK-95224** Units: **ug/Kg** Analysis Date: **16-Jul-2015 13:43**
Client ID: Run ID: **ECD_11_258076** SeqNo: **3358483** PrepDate: **14-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	3.3								
4,4´-DDE	U	3.3								
4,4´-DDT	U	3.3								
Aldrin	U	1.7								
alpha-BHC	U	1.7								
beta-BHC	U	1.7								
Chlordane	U	17								
delta-BHC	U	1.7								
Dieldrin	U	3.3								
Endosulfan I	U	1.7								
Endosulfan II	U	3.3								
Endosulfan sulfate	U	3.3								
Endrin	U	3.3								
Endrin aldehyde	U	3.3								
Endrin ketone	U	3.3								
gamma-BHC	U	1.7								
Heptachlor	U	1.7								
Heptachlor epoxide	U	1.7								
Methoxychlor	U	17								
Toxaphene	U	17								
Surr: Decachlorobiphenyl	*6.681*	*0*	*6.667*	*0*	*100*	*59 - 144*				
Surr: Tetrachloro-m-xylene	*6.875*	*0*	*6.667*	*0*	*103*	*56.9 - 130*				

MBLK Sample ID: **MBLK-95224** Units: **ug/Kg** Analysis Date: **16-Jul-2015 13:43**
Client ID: Run ID: **ECD_11_258076** SeqNo: **3358495** PrepDate: **14-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	U	1.7								
gamma-Chlordane	U	1.7								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: 95224 **Instrument: ECD_11** **Method: SW8081**

LCS Sample ID: **LCS-95224** Units: **ug/Kg** Analysis Date: **16-Jul-2015 13:56**
Client ID: Run ID: **ECD_11_258076** SeqNo: **3358484** PrepDate: **14-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	16.1	3.3	16.67	0	96.6	53 - 138				
4,4´-DDE	13.51	3.3	16.67	0	81.1	57 - 136				
4,4´-DDT	18.84	3.3	16.67	0	113	53 - 139				
Aldrin	5.208	1.7	8.333	0	62.5	52 - 130				
alpha-BHC	5.103	1.7	8.333	0	61.2	52 - 130				
beta-BHC	6.779	1.7	8.333	0	81.4	62 - 130				
delta-BHC	5.704	1.7	8.333	0	68.4	41 - 137				
Dieldrin	14.59	3.3	16.67	0	87.6	54 - 138				
Endosulfan I	7.214	1.7	8.333	0	86.6	55 - 132				
Endosulfan II	16.2	3.3	16.67	0	97.2	59 - 134				
Endosulfan sulfate	16.96	3.3	16.67	0	102	54 - 141				
Endrin	15.99	3.3	16.67	0	96.0	60 - 157				
Endrin aldehyde	11.73	3.3	16.67	0	70.4	56 - 146				
Endrin ketone	17.63	3.3	16.67	0	106	56 - 153				
gamma-BHC	6.015	1.7	8.333	0	72.2	52 - 133				
Heptachlor	5.945	1.7	8.333	0	71.3	54 - 134				
Heptachlor epoxide	6.629	1.7	8.333	0	79.5	58 - 130				
Methoxychlor	94.63	17	83.3	0	114	60 - 140				
Surr: Decachlorobiphenyl	*6.044*	*0*	*6.667*	*0*	*90.7*	*59 - 144*				
Surr: Tetrachloro-m-xylene	*4.052*	*0*	*6.667*	*0*	*60.8*	*56.9 - 130*				

LCS Sample ID: **LCS-95224** Units: **ug/Kg** Analysis Date: **16-Jul-2015 13:56**
Client ID: Run ID: **ECD_11_258076** SeqNo: **3358496** PrepDate: **14-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	7.061	1.7	8.333	0	84.7	55 - 132				
gamma-Chlordane	6.882	1.7	8.333	0	82.6	60 - 129				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: 95224 **Instrument: ECD_11** **Method: SW8081**

MS Sample ID: **HS15070491-06MS** Units: **ug/Kg** Analysis Date: **16-Jul-2015 14:47**
Client ID: **B-3/TMW-3 7.5-10'** Run ID: **ECD_11_258076** SeqNo: **3358486** PrepDate: **14-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	9.378	3.3	16.56	0	56.6	53 - 138				
4,4´-DDE	11.79	3.3	16.56	0	71.2	57 - 136				
4,4´-DDT	16.06	3.3	16.56	0	97.0	53 - 139				
Aldrin	4.515	1.7	8.278	0	54.5	52 - 130				
alpha-BHC	3.565	1.7	8.278	0	43.1	52 - 130				S
beta-BHC	5.797	1.7	8.278	0	70.0	62 - 130				
delta-BHC	5.204	1.7	8.278	0	62.9	41 - 137				
Dieldrin	22.91	3.3	16.56	18.52	26.5	54 - 138				S
Endosulfan I	7.043	1.7	8.278	0	85.1	55 - 132				
Endosulfan II	14.22	3.3	16.56	0	85.9	59 - 134				
Endosulfan sulfate	14.78	3.3	16.56	0	89.3	54 - 141				
Endrin	13.43	3.3	16.56	0	81.1	60 - 157				
Endrin aldehyde	10.23	3.3	16.56	0	61.8	56 - 146				
Endrin ketone	15.39	3.3	16.56	0	93.0	56 - 153				
gamma-BHC	4.645	1.7	8.278	0	56.1	52 - 133				
Heptachlor	4.964	1.7	8.278	0	60.0	54 - 134				
Heptachlor epoxide	6.067	1.7	8.278	0	73.3	58 - 130				
Methoxychlor	89.14	17	82.75	0	108	60 - 140				
Surr: Decachlorobiphenyl	*5.342*	*0*	*6.623*	*0*	*80.7*	*59 - 144*				
Surr: Tetrachloro-m-xylene	*2.288*	*0*	*6.623*	*0*	*34.5*	*56.9 - 130*				S

MS Sample ID: **HS15070491-06MS** Units: **ug/Kg** Analysis Date: **16-Jul-2015 14:47**
Client ID: **B-3/TMW-3 7.5-10'** Run ID: **ECD_11_258076** SeqNo: **3358498** PrepDate: **14-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	7.211	1.7	8.278	0	87.1	55 - 132				
gamma-Chlordane	8.389	1.7	8.278	0	101	60 - 129				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: 95224 **Instrument: ECD_11** **Method: SW8081**

MSD Sample ID: **HS15070491-06MSD** Units: **ug/Kg** Analysis Date: **16-Jul-2015 15:12**
Client ID: **B-3/TMW-3 7.5-10'** Run ID: **ECD_11_258076** SeqNo: **3358487** PrepDate: **14-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
4,4´-DDD	9.579	3.3	16.63	0	57.6	53 - 138	9.378	2.12	30	
4,4´-DDE	10.99	3.3	16.63	0	66.0	57 - 136	11.79	7.08	30	
4,4´-DDT	14.06	3.3	16.63	0	84.5	53 - 139	16.06	13.2	30	
Aldrin	4.049	1.7	8.317	0	48.7	52 - 130	4.515	10.9	30	S
alpha-BHC	3.459	1.7	8.317	0	41.6	52 - 130	3.565	3.01	30	S
beta-BHC	5.733	1.7	8.317	0	68.9	62 - 130	5.797	1.11	30	
delta-BHC	4.717	1.7	8.317	0	56.7	41 - 137	5.204	9.81	30	
Dieldrin	21.65	3.3	16.63	18.52	18.8	54 - 138	22.91	5.64	30	S
Endosulfan I	6.435	1.7	8.317	0	77.4	55 - 132	7.043	9.02	30	
Endosulfan II	13.12	3.3	16.63	0	78.9	59 - 134	14.22	8.06	30	
Endosulfan sulfate	13.74	3.3	16.63	0	82.6	54 - 141	14.78	7.29	30	
Endrin	12.52	3.3	16.63	0	75.3	60 - 157	13.43	6.97	30	P
Endrin aldehyde	9.551	3.3	16.63	0	57.4	56 - 146	10.23	6.88	30	
Endrin ketone	13.54	3.3	16.63	0	81.4	56 - 153	15.39	12.8	30	
gamma-BHC	4.547	1.7	8.317	0	54.7	52 - 133	4.645	2.12	30	
Heptachlor	4.69	1.7	8.317	0	56.4	54 - 134	4.964	5.67	30	
Heptachlor epoxide	5.673	1.7	8.317	0	68.2	58 - 130	6.067	6.71	30	
Methoxychlor	81.62	17	83.13	0	98.2	60 - 140	89.14	8.8	30	
Surr: Decachlorobiphenyl	*4.729*	*0*	*6.653*	*0*	*71.1*	*59 - 144*	*5.342*	*12.2*	*30*	
Surr: Tetrachloro-m-xylene	*1.598*	*0*	*6.653*	*0*	*24.0*	*56.9 - 130*	*2.288*	*35.5*	*30*	SR

MSD Sample ID: **HS15070491-06MSD** Units: **ug/Kg** Analysis Date: **16-Jul-2015 15:12**
Client ID: **B-3/TMW-3 7.5-10'** Run ID: **ECD_11_258076** SeqNo: **3358499** PrepDate: **14-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
alpha-Chlordane	6.991	1.7	8.316	0	84.1	55 - 132	7.211	3.1	30	
gamma-Chlordane	7.749	1.7	8.316	0	93.2	60 - 129	8.389	7.94	30	

The following samples were anayzed in this batch: HS15070491-06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: 95204 **Instrument: FID-13** **Method: TX1005**

MBLK Sample ID: **MBLK-95204** Units: **mg/Kg** Analysis Date: **14-Jul-2015 14:38**
Client ID: Run ID: **FID-13_257858** SeqNo: **3354234** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
Surr: 2-Fluorobiphenyl	*24.9*	*0*	*25*	*0*	*99.6*	*70 - 130*				
Surr: Trifluoromethyl benzene	*25.27*	*0*	*25*	*0*	*101*	*70 - 130*				

LCS Sample ID: **LCS-95204** Units: **mg/Kg** Analysis Date: **14-Jul-2015 15:12**
Client ID: Run ID: **FID-13_257858** SeqNo: **3354235** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	241	50	250	0	96.4	75 - 125				
>nC12 to nC28	258.2	50	250	0	103	75 - 125				
Surr: 2-Fluorobiphenyl	*29.89*	*0*	*25*	*0*	*120*	*70 - 130*				
Surr: Trifluoromethyl benzene	*24.1*	*0*	*25*	*0*	*96.4*	*70 - 130*				

LCSD Sample ID: **LCSD-95204** Units: **mg/Kg** Analysis Date: **14-Jul-2015 15:45**
Client ID: Run ID: **FID-13_257858** SeqNo: **3354236** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	246.1	50	250	0	98.5	75 - 125	241	2.09	20	
>nC12 to nC28	305.5	50	250	0	122	75 - 125	258.2	16.8	20	
Surr: 2-Fluorobiphenyl	*31.75*	*0*	*25*	*0*	*127*	*70 - 130*	*29.89*	*6.03*	*20*	
Surr: Trifluoromethyl benzene	*25.13*	*0*	*25*	*0*	*101*	*70 - 130*	*24.1*	*4.15*	*20*	

MS Sample ID: **HS15070491-06MS** Units: **mg/Kg** Analysis Date: **14-Jul-2015 16:53**
Client ID: **B-3/TMW-3 7.5-10'** Run ID: **FID-13_257858** SeqNo: **3354278** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	206.5	50	249	0	82.9	75 - 125				
>nC12 to nC28	207.7	50	249	0	83.4	75 - 125				
Surr: 2-Fluorobiphenyl	*23.14*	*0*	*24.9*	*0*	*92.9*	*70 - 130*				
Surr: Trifluoromethyl benzene	*21.25*	*0*	*24.9*	*0*	*85.3*	*70 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: 95204 **Instrument: FID-13** **Method: TX1005**

MSD Sample ID: **HS15070491-06MSD** Units: **mg/Kg** Analysis Date: **14-Jul-2015 16:53**
Client ID: **B-3/TMW-3 7.5-10'** Run ID: **FID-13_257858** SeqNo: **3354297** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	192.1	50	249.5	0	77.0	75 - 125	206.5	7.25	20	
>nC12 to nC28	217.6	50	249.5	0	87.2	75 - 125	207.7	4.65	20	
Surr: 2-Fluorobiphenyl	*23.43*	*0*	*24.95*	*0*	*93.9*	*70 - 130*	*23.14*	*1.24*	*20*	
Surr: Trifluoromethyl benzene	*21.01*	*0*	*24.95*	*0*	*84.2*	*70 - 130*	*21.25*	*1.13*	*20*	

The following samples were anayzed in this batch: HS15070491-01 HS15070491-04 HS15070491-06 HS15070491-08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R257760 **Instrument: VOA5** **Method: SW8260**

MBLK Sample ID: **VBLKS1-071315** Units: **ug/Kg** Analysis Date: **13-Jul-2015 09:14**
Client ID: Run ID: **VOA5_257760** SeqNo: **3352193** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	20								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	10								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Ethylbenzene	U	5.0								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R257760 **Instrument: VOA5** **Method: SW8260**

MBLK Sample ID: **VBLKS1-071315** Units: **ug/Kg** Analysis Date: **13-Jul-2015 09:14**
Client ID: Run ID: **VOA5_257760** SeqNo: **3352193** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	10								
o-Xylene	U	5.0								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,2-Dichloroethene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Trichlorofluoromethane	U	5.0								
Vinyl chloride	U	2.0								
Xylenes, Total	U	10								
Surr: 1,2-Dichloroethane-d4	*42.11*	*0*	*50*	*0*	*84.2*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*48.85*	*0*	*50*	*0*	*97.7*	*73 - 126*				
Surr: Dibromofluoromethane	*43.7*	*0*	*50*	*0*	*87.4*	*71 - 128*				
Surr: Toluene-d8	*51.01*	*0*	*50*	*0*	*102*	*73 - 127*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R257760 **Instrument: VOA5** **Method: SW8260**

LCS Sample ID: **VLCSS1-071315** Units: **ug/Kg** Analysis Date: **13-Jul-2015 08:27**
Client ID: Run ID: **VOA5_257760** SeqNo: **3352192** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.98	5.0	50	0	90.0	79 - 128				
1,1,2,2-Tetrachloroethane	49.73	5.0	50	0	99.5	75 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	44.34	5.0	50	0	88.7	76 - 127				
1,1,2-Trichloroethane	48.82	5.0	50	0	97.6	77 - 120				
1,1-Dichloroethane	48.63	5.0	50	0	97.3	75 - 124				
1,1-Dichloroethene	44.69	5.0	50	0	89.4	76 - 128				
1,2,4-Trichlorobenzene	51.5	5.0	50	0	103	74 - 128				
1,2-Dibromo-3-chloropropane	53.52	5.0	50	0	107	66 - 129				
1,2-Dibromoethane	51.08	5.0	50	0	102	70 - 120				
1,2-Dichlorobenzene	49.41	5.0	50	0	98.8	75 - 120				
1,2-Dichloroethane	46.45	5.0	50	0	92.9	73 - 121				
1,2-Dichloropropane	50.55	5.0	50	0	101	75 - 124				
1,3-Dichlorobenzene	49.49	5.0	50	0	99.0	70 - 125				
1,4-Dichlorobenzene	48.64	5.0	50	0	97.3	77 - 120				
2-Butanone	95.09	10	100	0	95.1	65 - 130				
2-Hexanone	108.2	10	100	0	108	65 - 133				
4-Methyl-2-pentanone	106.1	10	100	0	106	69 - 130				
Acetone	92.08	20	100	0	92.1	53 - 142				
Benzene	50.38	5.0	50	0	101	79 - 122				
Bromodichloromethane	50.17	5.0	50	0	100	79 - 121				
Bromoform	54.25	5.0	50	0	108	74 - 125				
Bromomethane	44.24	10	50	0	88.5	68 - 131				
Carbon disulfide	88.06	10	100	0	88.1	78 - 131				
Carbon tetrachloride	46.67	5.0	50	0	93.3	74 - 126				
Chlorobenzene	49.58	5.0	50	0	99.2	79 - 120				
Chloroethane	46.65	10	50	0	93.3	74 - 126				
Chloroform	43.89	5.0	50	0	87.8	78 - 122				
Chloromethane	47.32	10	50	0	94.6	69 - 129				
cis-1,2-Dichloroethene	45.73	5.0	50	0	91.5	78 - 122				
cis-1,3-Dichloropropene	52.6	5.0	50	0	105	77 - 123				
Cyclohexane	47.65	5.0	50	0	95.3	74 - 126				
Dibromochloromethane	52.1	5.0	50	0	104	78 - 122				
Dichlorodifluoromethane	38.7	5.0	50	0	77.4	57 - 140				
Ethylbenzene	50.96	5.0	50	0	102	80 - 122				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R257760 **Instrument: VOA5** **Method: SW8260**

LCS Sample ID: **VLCSS1-071315** Units: **ug/Kg** Analysis Date: **13-Jul-2015 08:27**
Client ID: Run ID: **VOA5_257760** SeqNo: **3352192** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	51.99	5.0	50	0	104	72 - 127				
m,p-Xylene	101.9	10	100	0	102	79 - 122				
Methyl acetate	43.27	5.0	50	0	86.5	69 - 123				
Methyl tert-butyl ether	48.43	5.0	50	0	96.9	76 - 124				
Methylcyclohexane	48.55	5.0	50	0	97.1	77 - 127				
Methylene chloride	43.83	10	50	0	87.7	65 - 130				
o-Xylene	50.14	5.0	50	0	100	80 - 123				
Styrene	49.93	5.0	50	0	99.9	78 - 124				
Tetrachloroethene	51.96	5.0	50	0	104	70 - 130				
Toluene	50.4	5.0	50	0	101	79 - 120				
trans-1,2-Dichloroethene	46.77	5.0	50	0	93.5	79 - 122				
trans-1,3-Dichloropropene	47.8	5.0	50	0	95.6	77 - 120				
Trichloroethene	47.02	5.0	50	0	94.0	75 - 123				
Trichlorofluoromethane	43.4	5.0	50	0	86.8	75 - 126				
Vinyl chloride	44.23	2.0	50	0	88.5	76 - 126				
Xylenes, Total	152.1	10	150	0	101	80 - 120				
Surr: 1,2-Dichloroethane-d4	*44.52*	*0*	*50*	*0*	*89.0*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*49.74*	*0*	*50*	*0*	*99.5*	*73 - 126*				
Surr: Dibromofluoromethane	*44.92*	*0*	*50*	*0*	*89.8*	*71 - 128*				
Surr: Toluene-d8	*49.83*	*0*	*50*	*0*	*99.7*	*73 - 127*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R257760 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS15070480-01MS** Units: **ug/Kg** Analysis Date: **13-Jul-2015 12:47**
Client ID: Run ID: **VOA5_257760** SeqNo: **3352202** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	28.68	5.0	50	0	57.4	79 - 128				S
1,1,2,2-Tetrachloroethane	27.64	5.0	50	0	55.3	75 - 123				S
1,1,2-Trichlor-1,2,2-trifluoroethane	26.56	5.0	50	0	53.1	76 - 127				S
1,1,2-Trichloroethane	31.95	5.0	50	0	63.9	77 - 120				S
1,1-Dichloroethane	33.35	5.0	50	0	66.7	75 - 124				S
1,1-Dichloroethene	30.86	5.0	50	0	61.7	76 - 128				S
1,2,4-Trichlorobenzene	11.84	5.0	50	0	23.7	74 - 128				S
1,2-Dibromo-3-chloropropane	24.62	5.0	50	0	49.2	66 - 129				S
1,2-Dibromoethane	31.17	5.0	50	0	62.3	70 - 120				S
1,2-Dichlorobenzene	18.36	5.0	50	0	36.7	75 - 120				S
1,2-Dichloroethane	32.31	5.0	50	0	64.6	73 - 121				S
1,2-Dichloropropane	32.4	5.0	50	0	64.8	75 - 124				S
1,3-Dichlorobenzene	19.15	5.0	50	0	38.3	70 - 125				S
1,4-Dichlorobenzene	19.1	5.0	50	0	38.2	77 - 120				S
2-Butanone	60.05	10	100	0	60.0	65 - 130				S
2-Hexanone	56.14	10	100	0	56.1	65 - 133				S
4-Methyl-2-pentanone	289.9	10	100	0	290	69 - 130				S
Acetone	324	20	100	0	324	53 - 142				S
Benzene	31.82	5.0	50	0	63.6	79 - 122				S
Bromodichloromethane	30.21	5.0	50	0	60.4	79 - 121				S
Bromoform	27.94	5.0	50	0	55.9	74 - 125				S
Bromomethane	30.41	10	50	0	60.8	68 - 131				S
Carbon disulfide	54.91	10	100	0	54.9	78 - 131				S
Carbon tetrachloride	26.9	5.0	50	0	53.8	74 - 126				S
Chlorobenzene	26.08	5.0	50	0	52.2	79 - 120				S
Chloroethane	34.22	10	50	0	68.4	74 - 126				S
Chloroform	30.4	5.0	50	0	60.8	78 - 122				S
Chloromethane	32.97	10	50	0	65.9	69 - 129				S
cis-1,2-Dichloroethene	31.64	5.0	50	0	63.3	78 - 122				S
cis-1,3-Dichloropropene	29.42	5.0	50	0	58.8	77 - 123				S
Cyclohexane	25.43	5.0	50	0	50.9	74 - 126				S
Dibromochloromethane	30.07	5.0	50	0	60.1	78 - 122				S
Dichlorodifluoromethane	27.14	5.0	50	0	54.3	57 - 140				S
Ethylbenzene	25.87	5.0	50	0	51.7	80 - 122				S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R257760 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS15070480-01MS** Units: **ug/Kg** Analysis Date: **13-Jul-2015 12:47**
Client ID: Run ID: **VOA5_257760** SeqNo: **3352202** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	23.58	5.0	50	0	47.2	72 - 127				S
m,p-Xylene	51.21	10	100	0	51.2	79 - 122				S
Methyl acetate	23.01	5.0	50	0	46.0	69 - 123				S
Methyl tert-butyl ether	35.78	5.0	50	0	71.6	76 - 124				S
Methylcyclohexane	21.72	5.0	50	0	43.4	77 - 127				S
Methylene chloride	32.51	10	50	0	65.0	65 - 130				
o-Xylene	25.81	5.0	50	0	51.6	80 - 123				S
Styrene	24.45	5.0	50	0	48.9	78 - 124				S
Tetrachloroethene	20.96	5.0	50	0	41.9	70 - 130				S
Toluene	29.67	5.0	50	0	59.3	79 - 120				S
trans-1,2-Dichloroethene	31.9	5.0	50	0	63.8	79 - 122				S
trans-1,3-Dichloropropene	27.51	5.0	50	0	55.0	77 - 120				S
Trichloroethene	28.16	5.0	50	0	56.3	75 - 123				S
Trichlorofluoromethane	28.5	5.0	50	0	57.0	75 - 126				S
Vinyl chloride	32.44	2.0	50	0	64.9	76 - 126				S
Xylenes, Total	77.01	10	150	0	51.3	80 - 120				S
Surr: 1,2-Dichloroethane-d4	*46.17*	*0*	*50*	*0*	*92.3*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*48.56*	*0*	*50*	*0*	*97.1*	*73 - 126*				
Surr: Dibromofluoromethane	*46.51*	*0*	*50*	*0*	*93.0*	*71 - 128*				
Surr: Toluene-d8	*49.78*	*0*	*50*	*0*	*99.6*	*73 - 127*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R257760 **Instrument: VOA5** **Method: SW8260**

MSD Sample ID: **HS15070480-01MSD** Units: **ug/Kg** Analysis Date: **13-Jul-2015 13:11**
Client ID: Run ID: **VOA5_257760** SeqNo: **3352203** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	26.25	5.0	50	0	52.5	79 - 128	28.68	8.86	30	S
1,1,2,2-Tetrachloroethane	27.12	5.0	50	0	54.2	75 - 123	27.64	1.9	30	S
1,1,2-Trichlor-1,2,2-trifluoroethane	24.78	5.0	50	0	49.6	76 - 127	26.56	6.93	30	S
1,1,2-Trichloroethane	29.64	5.0	50	0	59.3	77 - 120	31.95	7.48	30	S
1,1-Dichloroethane	29.49	5.0	50	0	59.0	75 - 124	33.35	12.3	30	S
1,1-Dichloroethene	27.34	5.0	50	0	54.7	76 - 128	30.86	12.1	30	S
1,2,4-Trichlorobenzene	14.96	5.0	50	0	29.9	74 - 128	11.84	23.3	30	S
1,2-Dibromo-3-chloropropane	25.56	5.0	50	0	51.1	66 - 129	24.62	3.77	30	S
1,2-Dibromoethane	29.16	5.0	50	0	58.3	70 - 120	31.17	6.66	30	S
1,2-Dichlorobenzene	19.95	5.0	50	0	39.9	75 - 120	18.36	8.29	30	S
1,2-Dichloroethane	29.65	5.0	50	0	59.3	73 - 121	32.31	8.59	30	S
1,2-Dichloropropane	29.87	5.0	50	0	59.7	75 - 124	32.4	8.12	30	S
1,3-Dichlorobenzene	19.92	5.0	50	0	39.8	70 - 125	19.15	3.98	30	S
1,4-Dichlorobenzene	20.18	5.0	50	0	40.4	77 - 120	19.1	5.49	30	S
2-Butanone	42.28	10	100	0	42.3	65 - 130	60.05	34.7	30	SR
2-Hexanone	54.96	10	100	0	55.0	65 - 133	56.14	2.13	30	S
4-Methyl-2-pentanone	224	10	100	0	224	69 - 130	289.9	25.6	30	S
Acetone	193.1	20	100	0	193	53 - 142	324	50.6	30	SR
Benzene	28.55	5.0	50	0	57.1	79 - 122	31.82	10.8	30	S
Bromodichloromethane	28.17	5.0	50	0	56.3	79 - 121	30.21	6.97	30	S
Bromoform	26.76	5.0	50	0	53.5	74 - 125	27.94	4.32	30	S
Bromomethane	25.52	10	50	0	51.0	68 - 131	30.41	17.5	30	S
Carbon disulfide	49.91	10	100	0	49.9	78 - 131	54.91	9.53	30	S
Carbon tetrachloride	25.47	5.0	50	0	50.9	74 - 126	26.9	5.48	30	S
Chlorobenzene	25.06	5.0	50	0	50.1	79 - 120	26.08	3.98	30	S
Chloroethane	29.94	10	50	0	59.9	74 - 126	34.22	13.3	30	S
Chloroform	26.52	5.0	50	0	53.0	78 - 122	30.4	13.6	30	S
Chloromethane	31	10	50	0	62.0	69 - 129	32.97	6.17	30	S
cis-1,2-Dichloroethene	27.76	5.0	50	0	55.5	78 - 122	31.64	13.1	30	S
cis-1,3-Dichloropropene	27.47	5.0	50	0	54.9	77 - 123	29.42	6.84	30	S
Cyclohexane	24.35	5.0	50	0	48.7	74 - 126	25.43	4.36	30	S
Dibromochloromethane	28.06	5.0	50	0	56.1	78 - 122	30.07	6.92	30	S
Dichlorodifluoromethane	24.46	5.0	50	0	48.9	57 - 140	27.14	10.4	30	S
Ethylbenzene	25.34	5.0	50	0	50.7	80 - 122	25.87	2.09	30	S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R257760 **Instrument: VOA5** **Method: SW8260**

MSD Sample ID: **HS15070480-01MSD** Units: **ug/Kg** Analysis Date: **13-Jul-2015 13:11**
Client ID: Run ID: **VOA5_257760** SeqNo: **3352203** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Isopropylbenzene	23.35	5.0	50	0	46.7	72 - 127	23.58	0.968	30	S
m,p-Xylene	49.62	10	100	0	49.6	79 - 122	51.21	3.14	30	S
Methyl acetate	11.25	5.0	50	0	22.5	69 - 123	23.01	68.7	30	SR
Methyl tert-butyl ether	29.9	5.0	50	0	59.8	76 - 124	35.78	17.9	30	S
Methylcyclohexane	21.74	5.0	50	0	43.5	77 - 127	21.72	0.0884	30	S
Methylene chloride	27.81	10	50	0	55.6	65 - 130	32.51	15.6	30	S
o-Xylene	24.48	5.0	50	0	49.0	80 - 123	25.81	5.29	30	S
Styrene	24.25	5.0	50	0	48.5	78 - 124	24.45	0.853	30	S
Tetrachloroethene	20.7	5.0	50	0	41.4	70 - 130	20.96	1.22	30	S
Toluene	27.61	5.0	50	0	55.2	79 - 120	29.67	7.19	30	S
trans-1,2-Dichloroethene	28.36	5.0	50	0	56.7	79 - 122	31.9	11.7	30	S
trans-1,3-Dichloropropene	26.36	5.0	50	0	52.7	77 - 120	27.51	4.28	30	S
Trichloroethene	25.94	5.0	50	0	51.9	75 - 123	28.16	8.2	30	S
Trichlorofluoromethane	26.21	5.0	50	0	52.4	75 - 126	28.5	8.37	30	S
Vinyl chloride	29.38	2.0	50	0	58.8	76 - 126	32.44	9.89	30	S
Xylenes, Total	74.1	10	150	0	49.4	80 - 120	77.01	3.86	30	S
Surr: 1,2-Dichloroethane-d4	*44.86*	*0*	*50*	*0*	*89.7*	*70 - 128*	*46.17*	*2.89*	*30*	
Surr: 4-Bromofluorobenzene	*48.83*	*0*	*50*	*0*	*97.7*	*73 - 126*	*48.56*	*0.566*	*30*	
Surr: Dibromofluoromethane	*46.66*	*0*	*50*	*0*	*93.3*	*71 - 128*	*46.51*	*0.332*	*30*	
Surr: Toluene-d8	*49.24*	*0*	*50*	*0*	*98.5*	*73 - 127*	*49.78*	*1.1*	*30*	

The following samples were anayzed in this batch: HS15070491-01 HS15070491-04 HS15070491-06 HS15070491-08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070491

QC BATCH REPORT

Batch ID: R258034 **Instrument: Balance1** **Method: SW3550**

DUP Sample ID: **HS15070200-12DUP** Units: **wt%** Analysis Date: **16-Jul-2015 16:15**
Client ID: Run ID: **Balance1_258034** SeqNo: **3357669** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	19.7	0.0100					19.2	2.57	20	

The following samples were anayzed in this batch: HS15070491-01 HS15070491-04 HS15070491-06 HS15070491-08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: **HS15070491**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
µg/Kg-dry	Micrograms per Kilogram- Dry weight corrected
Date	
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Jul-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Work Order: HS15070491

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15070491-01	B-1/TMW-1 7.5-10'	Login	7/11/2015 11:44:59 AM	BHH	VW-2
HS15070491-01	B-1/TMW-1 7.5-10'	Login	7/11/2015 11:44:59 AM	BHH	LF-26
HS15070491-02	DUP-1	Login	7/11/2015 11:44:59 AM	BHH	1B
HS15070491-03	B-1/TMW-1 21-22'	Login	7/11/2015 11:44:59 AM	BHH	1B
HS15070491-04	B-2/TMW-2 7.5-10'	Login	7/11/2015 11:44:59 AM	BHH	VW-2
HS15070491-04	B-2/TMW-2 7.5-10'	Login	7/11/2015 11:44:59 AM	BHH	LF-26
HS15070491-05	B-2/TMW-2 17.5-20'	Login	7/11/2015 11:44:59 AM	BHH	1B
HS15070491-06	B-3/TMW-3 7.5-10'	Login	7/11/2015 11:44:59 AM	BHH	VW-2
HS15070491-06	B-3/TMW-3 7.5-10'	Login	7/11/2015 11:44:59 AM	BHH	LF-26
HS15070491-07	B-4/TMW-4 0-3'	Login	7/11/2015 11:44:59 AM	BHH	1B
HS15070491-08	B-4/TMW-4 12.5-15'	Login	7/11/2015 11:44:59 AM	BHH	VW-2
HS15070491-08	B-4/TMW-4 12.5-15'	Login	7/11/2015 11:44:59 AM	BHH	LF-26

Sample Receipt Checklist

Client Name: WM_Fort Worth
Work Order: HS15070491

Date/Time Received: **10-Jul-2015 13:15**
Received by: **KRM**

Checklist completed by: *Baudelio Hernandez* eSignature 11-Jul-2015 Date

Reviewed by: *Bernadette A. Fini* eSignature 13-Jul-2015 Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.0c /2.3c u/c	IR#4	
Cooler(s)/Kit(s):	24061		
Date/Time sample(s) sent to storage:	07/11/2015 12:15		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Everett, WA +1 425 356 2600 | Fort Collins, CO +1 970 490 1511 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 20875

HS15070491

W&M Environmental Group, L.L.C

1483.001

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	
Work Order		Project Number	1483.001
Company Name	W&M Environmental	Bill To Company	Re: Tolett
Send Report To	Paul Rabalais, Nick Cramer	Invoice Attn	Accounts Payable
Address	6825 Manhattan Blvd. Suite 125	Address	
City/State/Zip	Fort Worth, Tx 76120	City/State/Zip	
Phone	817-402-3128	Phone	
Fax		Fax	
e-Mail Address	prabalais@wm-m.com ncramer@wm-m.com	e-Mail Address	accounts_payable@wm-m.com

A	Moisture
B	TPH, Texas Method 1005
C	VOC, EPA Method 8260
D	Organochlorinated pesticides, EPA Method 8081
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-1/TMW-1 7.5-10'	7/9/15	8:15	Soil	—	2	X	X	X								
2	DUP-1		8:15	Soil	—	1	X										X
3	B-1/TMW-1 21-22'		9:15	Soil	—	1	X										X
4	B-2/TMW-2 7.5-10'		10:15	Soil	—	2	X	X	X								
5	B-2/TMW-2 17.5-20'		10:25	Soil	—	2	X										X
6	B-3/TMW-3 7.5-10'		1405	Soil	—	2	X	X	X	X							
7	B-4/TMW-4 0-3'		12:50	Soil	—	2	X										X
8	B-4/TMW-4 12.5-15'		13:15	Soil	—	2	X	X	X								
9																	
10																	

Sampler(s) Please Print & Sign: Ross Zapalac RBZ

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

	Date:	Time:	
Relinquished by: Ross Zapalac RBZ	7/4/15	17:00	Received by:
Relinquished by:	7/10/15	13:15	Received by (Laboratory):
Logged by (Laboratory):	7-11-15	9:16	Checked by (Laboratory): Krysta Mathis

Notes: TRRP

Cooler ID	Cooler Temp
24001	
12+4	
CFC-3	

QC Package: (Check One Box Below)

☐ Level II Std QC ☒ TRRP Checklist

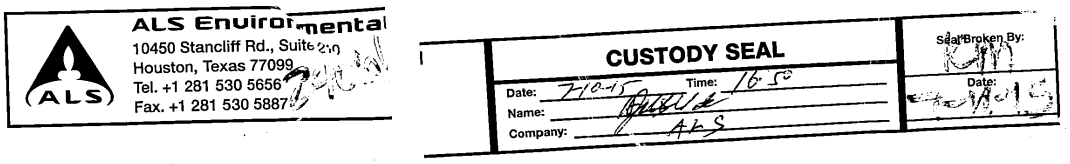
☐ Level III Std QC/Raw Date ☐ TRRP Level IV

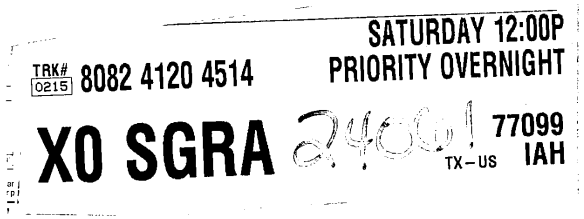
☐ Level IV SW846/CLP

☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.


ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
CUSTODY SEAL
Date: 7-10-15
Time: 16:50
Name:
Company: ALS
Seal Broken By:
Date:


SATURDAY 12:00P
PRIORITY OVERNIGHT
TRK# 0215 8082 4120 4514
XO SGRA
77099
TX-US
IAH

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

July 23, 2015

Paul Rodusky
W&M Environmental Group, L.L.C
6825 Manhattan Blvd.
Suite 125
Fort Worth, TX 76120

Work Order: **HS15070742**

Laboratory Results for: **1483.001**

Dear Paul,

ALS Environmental received 3 sample(s) on Jul 16, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Bernadette A. Fini
Project Manager

Client:	W&M Environmental Group, L.L.C	**TRRP Laboratory Data Package Cover Page**
Project:	1483.001	
WorkOrder:	**HS15070742**	

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:

a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:

a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

ALS Group USA, Corp Date: 23-Jul-15

Client:	W&M Environmental Group, L.L.C
Project:	1483.001
WorkOrder:	**HS15070742**

TRRP Laboratory Data Package Cover Page

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bernadette A. Fini
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 07/23/2015					
Project Name: 1483.001			Laboratory Job Number: HS15070742					
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 95374, 95397, R258245, R258365					
#[1]	A[2]	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?		X			1
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				4

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 07/23/2015				
Project Name: 1483.001			Laboratory Job Number: HS15070742				
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 95374, 95397, R258245, R258365				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Laboratory Group		LRC Date: 07/23/2015
Project Name: 1483.001		Laboratory Job Number: HS15070742
Reviewer Name: Bernadette Fini		Prep Batch Number(s): 95374, 95397, R258245, R258365
ER#[5]	**Description**	
1	Batch 95374, Organochlorine Pesticides by Method SW8081; The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS.	
2	Batch R258245, Volatile Organics Method SW8260, sample HS15070706-10, MS and MSD were performed on unrelated sample. Batch R258365, Volatile Organics Method SW8260, sample HS15070873-01, MS and MSD were performed on unrelated sample.	
3	Batch R258365, Volatile Organics Method SW8260, sample HS15070873-01, MS/MSD RPD was performed on unrelated sample	
4	Volatile Organics Method SW8260: With the exception of cyclohexane, ALS is NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package. Because TCEQ does not offer accreditation for this compound, the results are flagged with n.	

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Work Order: HS15070742

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15070742-01	B-2/TMW-2	Groundwater		15-Jul-2015 13:25	16-Jul-2015 14:30	☐
HS15070742-02	B-3/TMW-3	Groundwater		16-Jul-2015 10:40	16-Jul-2015 14:30	☐
HS15070742-03	DUP-1	Groundwater		16-Jul-2015 10:40	16-Jul-2015 14:30	☑

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-2/TMW-2
Collection Date: 15-Jul-2015 13:25

ANALYTICAL REPORT
WorkOrder:HS15070742
Lab ID:HS15070742-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: GQQ
1,1,1-Trichloroethane	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
1,1,2,2-Tetrachloroethane	U		0.50	1.0	ug/L	1	21-Jul-2015 01:15
1,1,2-Trichlor-1,2,2-trifluoroethane	U		1.0	1.0	ug/L	1	21-Jul-2015 01:15
1,1,2-Trichloroethane	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
1,1-Dichloroethane	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
1,1-Dichloroethene	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
1,2,4-Trichlorobenzene	U		0.50	1.0	ug/L	1	21-Jul-2015 01:15
1,2-Dibromo-3-chloropropane	U		1.0	1.0	ug/L	1	21-Jul-2015 01:15
1,2-Dibromoethane	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
1,2-Dichlorobenzene	U		0.50	1.0	ug/L	1	21-Jul-2015 01:15
1,2-Dichloroethane	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
1,2-Dichloropropane	U		0.50	1.0	ug/L	1	21-Jul-2015 01:15
1,3-Dichlorobenzene	U		0.40	1.0	ug/L	1	21-Jul-2015 01:15
1,4-Dichlorobenzene	U		0.40	1.0	ug/L	1	21-Jul-2015 01:15
2-Butanone	U		0.50	2.0	ug/L	1	21-Jul-2015 01:15
2-Hexanone	U		1.0	2.0	ug/L	1	21-Jul-2015 01:15
4-Methyl-2-pentanone	U		0.70	2.0	ug/L	1	21-Jul-2015 01:15
Acetone	**3.8**		**2.0**	**2.0**	**ug/L**	1	21-Jul-2015 01:15
Benzene	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
Bromodichloromethane	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
Bromoform	U		0.40	1.0	ug/L	1	21-Jul-2015 01:15
Bromomethane	U		0.40	1.0	ug/L	1	21-Jul-2015 01:15
Carbon disulfide	U		0.60	2.0	ug/L	1	21-Jul-2015 01:15
Carbon tetrachloride	U		0.50	1.0	ug/L	1	21-Jul-2015 01:15
Chlorobenzene	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Chloroethane	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Chloroform	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
Chloromethane	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
cis-1,2-Dichloroethene	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
cis-1,3-Dichloropropene	U		0.10	1.0	ug/L	1	21-Jul-2015 01:15
Cyclohexane	U	n	0.30	1.0	ug/L	1	21-Jul-2015 01:15
Dibromochloromethane	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Dichlorodifluoromethane	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Ethylbenzene	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Isopropylbenzene	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
m,p-Xylene	U		0.50	2.0	ug/L	1	21-Jul-2015 01:15
Methyl acetate	U		1.0	1.0	ug/L	1	21-Jul-2015 01:15
Methyl tert-butyl ether	**3.1**		**0.20**	**1.0**	**ug/L**	1	21-Jul-2015 01:15
Methylcyclohexane	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-2/TMW-2
Collection Date: 15-Jul-2015 13:25

ANALYTICAL REPORT
WorkOrder:HS15070742
Lab ID:HS15070742-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: GQQ
Methylene chloride	U		1.0	2.0	ug/L	1	21-Jul-2015 01:15
o-Xylene	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Styrene	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Tetrachloroethene	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Toluene	**0.39**	J	**0.20**	**1.0**	**ug/L**	1	21-Jul-2015 01:15
trans-1,2-Dichloroethene	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
trans-1,3-Dichloropropene	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
Trichloroethene	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
Trichlorofluoromethane	U		0.30	1.0	ug/L	1	21-Jul-2015 01:15
Vinyl chloride	U		0.20	1.0	ug/L	1	21-Jul-2015 01:15
Xylenes, Total	U		0.50	3.0	ug/L	1	21-Jul-2015 01:15
Surr: 1,2-Dichloroethane-d4	*99.9*			*71-125*	*%REC*	*1*	*21-Jul-2015 01:15*
Surr: 4-Bromofluorobenzene	*102*			*70-125*	*%REC*	*1*	*21-Jul-2015 01:15*
Surr: Dibromofluoromethane	*105*			*74-125*	*%REC*	*1*	*21-Jul-2015 01:15*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*21-Jul-2015 01:15*
LOW-LEVEL TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 20-Jul-2015		Analyst: JKP
nC6 to nC12	U		0.20	0.50	mg/L	1	21-Jul-2015 01:40
>nC12 to nC28	U		0.20	0.50	mg/L	1	21-Jul-2015 01:40
>nC28 to nC35	U		0.20	0.50	mg/L	1	21-Jul-2015 01:40
Total Petroleum Hydrocarbon	U		0.20	0.50	mg/L	1	21-Jul-2015 01:40
Surr: 2-Fluorobiphenyl	*103*			*70-130*	*%REC*	*1*	*21-Jul-2015 01:40*
Surr: Trifluoromethyl benzene	*109*			*70-130*	*%REC*	*1*	*21-Jul-2015 01:40*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-3/TMW-3
Collection Date: 16-Jul-2015 10:40

ANALYTICAL REPORT
WorkOrder:HS15070742
Lab ID:HS15070742-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: PC
1,1,1-Trichloroethane	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
1,1,2,2-Tetrachloroethane	U		0.50	1.0	ug/L	1	22-Jul-2015 15:00
1,1,2-Trichlor-1,2,2-trifluoroethane	U		1.0	1.0	ug/L	1	22-Jul-2015 15:00
1,1,2-Trichloroethane	U		0.30	1.0	ug/L	1	22-Jul-2015 15:00
1,1-Dichloroethane	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
1,1-Dichloroethene	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
1,2,4-Trichlorobenzene	U		0.50	1.0	ug/L	1	22-Jul-2015 15:00
1,2-Dibromo-3-chloropropane	U		1.0	1.0	ug/L	1	22-Jul-2015 15:00
1,2-Dibromoethane	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
1,2-Dichlorobenzene	U		0.50	1.0	ug/L	1	22-Jul-2015 15:00
1,2-Dichloroethane	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
1,2-Dichloropropane	U		0.50	1.0	ug/L	1	22-Jul-2015 15:00
1,3-Dichlorobenzene	U		0.40	1.0	ug/L	1	22-Jul-2015 15:00
1,4-Dichlorobenzene	U		0.40	1.0	ug/L	1	22-Jul-2015 15:00
2-Butanone	U		0.50	2.0	ug/L	1	22-Jul-2015 15:00
2-Hexanone	U		1.0	2.0	ug/L	1	22-Jul-2015 15:00
4-Methyl-2-pentanone	U		0.70	2.0	ug/L	1	22-Jul-2015 15:00
Acetone	U		2.0	2.0	ug/L	1	22-Jul-2015 15:00
Benzene	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
Bromodichloromethane	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
Bromoform	U		0.40	1.0	ug/L	1	22-Jul-2015 15:00
Bromomethane	U		0.40	1.0	ug/L	1	22-Jul-2015 15:00
Carbon disulfide	U		0.60	2.0	ug/L	1	22-Jul-2015 15:00
Carbon tetrachloride	U		0.50	1.0	ug/L	1	22-Jul-2015 15:00
Chlorobenzene	U		0.30	1.0	ug/L	1	22-Jul-2015 15:00
Chloroethane	U		0.30	1.0	ug/L	1	22-Jul-2015 15:00
Chloroform	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
Chloromethane	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
cis-1,2-Dichloroethene	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
cis-1,3-Dichloropropene	U		0.10	1.0	ug/L	1	22-Jul-2015 15:00
Cyclohexane	U	n	0.30	1.0	ug/L	1	22-Jul-2015 15:00
Dibromochloromethane	U		0.30	1.0	ug/L	1	22-Jul-2015 15:00
Dichlorodifluoromethane	U		0.30	1.0	ug/L	1	22-Jul-2015 15:00
Ethylbenzene	U		0.30	1.0	ug/L	1	22-Jul-2015 15:00
Isopropylbenzene	U		0.30	1.0	ug/L	1	22-Jul-2015 15:00
m,p-Xylene	U		0.50	2.0	ug/L	1	22-Jul-2015 15:00
Methyl acetate	U		1.0	1.0	ug/L	1	22-Jul-2015 15:00
Methyl tert-butyl ether	U		0.20	1.0	ug/L	1	22-Jul-2015 15:00
Methylcyclohexane	U		0.30	1.0	ug/L	1	22-Jul-2015 15:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-3/TMW-3
Collection Date: 16-Jul-2015 10:40

ANALYTICAL REPORT
WorkOrder:HS15070742
Lab ID:HS15070742-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: PC
Methylene chloride		U	1.0	2.0	ug/L	1	22-Jul-2015 15:00
o-Xylene		U	0.30	1.0	ug/L	1	22-Jul-2015 15:00
Styrene		U	0.30	1.0	ug/L	1	22-Jul-2015 15:00
Tetrachloroethene		U	0.30	1.0	ug/L	1	22-Jul-2015 15:00
Toluene		U	0.20	1.0	ug/L	1	22-Jul-2015 15:00
trans-1,2-Dichloroethene		U	0.20	1.0	ug/L	1	22-Jul-2015 15:00
trans-1,3-Dichloropropene		U	0.20	1.0	ug/L	1	22-Jul-2015 15:00
Trichloroethene		U	0.20	1.0	ug/L	1	22-Jul-2015 15:00
Trichlorofluoromethane		U	0.30	1.0	ug/L	1	22-Jul-2015 15:00
Vinyl chloride		U	0.20	1.0	ug/L	1	22-Jul-2015 15:00
Xylenes, Total		U	0.50	3.0	ug/L	1	22-Jul-2015 15:00
Surr: 1,2-Dichloroethane-d4	*82.5*			*71-125*	*%REC*	*1*	*22-Jul-2015 15:00*
Surr: 4-Bromofluorobenzene	*95.6*			*70-125*	*%REC*	*1*	*22-Jul-2015 15:00*
Surr: Dibromofluoromethane	*98.6*			*74-125*	*%REC*	*1*	*22-Jul-2015 15:00*
Surr: Toluene-d8	*90.9*			*75-125*	*%REC*	*1*	*22-Jul-2015 15:00*
ORGANOCHLORINE PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3510C/3665A / 20-Jul-2015		Analyst: STH
4,4´-DDD		U	0.0080	0.10	ug/L	1	22-Jul-2015 16:37
4,4´-DDE		U	0.0040	0.10	ug/L	1	22-Jul-2015 16:37
4,4´-DDT		U	0.0070	0.10	ug/L	1	22-Jul-2015 16:37
Aldrin		U	0.010	0.050	ug/L	1	22-Jul-2015 16:37
alpha-BHC		U	0.010	0.050	ug/L	1	22-Jul-2015 16:37
beta-BHC		U	0.010	0.050	ug/L	1	22-Jul-2015 16:37
Chlordane		U	0.10	0.50	ug/L	1	22-Jul-2015 16:37
delta-BHC		U	0.010	0.050	ug/L	1	22-Jul-2015 16:37
Dieldrin	**0.37**		**0.010**	**0.10**	**ug/L**	1	22-Jul-2015 16:37
Endosulfan I		U	0.010	0.050	ug/L	1	22-Jul-2015 16:37
Endosulfan II		U	0.020	0.10	ug/L	1	22-Jul-2015 16:37
Endosulfan sulfate		U	0.030	0.10	ug/L	1	22-Jul-2015 16:37
Endrin		U	0.030	0.10	ug/L	1	22-Jul-2015 16:37
Endrin aldehyde		U	0.030	0.10	ug/L	1	22-Jul-2015 16:37
Endrin ketone		U	0.030	0.10	ug/L	1	22-Jul-2015 16:37
gamma-BHC		U	0.010	0.050	ug/L	1	22-Jul-2015 16:37
Heptachlor		U	0.010	0.050	ug/L	1	22-Jul-2015 16:37
Heptachlor epoxide		U	0.010	0.050	ug/L	1	22-Jul-2015 16:37
Methoxychlor		U	0.15	0.50	ug/L	1	22-Jul-2015 16:37
Toxaphene		U	0.19	0.50	ug/L	1	22-Jul-2015 16:37
Surr: Decachlorobiphenyl	*101*			*54.9-145*	*%REC*	*1*	*22-Jul-2015 16:37*
Surr: Tetrachloro-m-xylene	*99.8*			*51.5-142*	*%REC*	*1*	*22-Jul-2015 16:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-3/TMW-3
Collection Date: 16-Jul-2015 10:40

ANALYTICAL REPORT
WorkOrder:HS15070742
Lab ID:HS15070742-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
MISCELLANEOUS PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3510C/3665A / 20-Jul-2015		Analyst: STH
alpha-Chlordane		U	0.020	0.050	ug/L	1	22-Jul-2015 16:37
gamma-Chlordane		U	0.020	0.050	ug/L	1	22-Jul-2015 16:37
LOW-LEVEL TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 20-Jul-2015		Analyst: JKP
nC6 to nC12		U	0.20	0.50	mg/L	1	21-Jul-2015 02:12
>nC12 to nC28		U	0.20	0.50	mg/L	1	21-Jul-2015 02:12
>nC28 to nC35		U	0.20	0.50	mg/L	1	21-Jul-2015 02:12
Total Petroleum Hydrocarbon		U	0.20	0.50	mg/L	1	21-Jul-2015 02:12
Surr: 2-Fluorobiphenyl	*101*			*70-130*	*%REC*	*1*	*21-Jul-2015 02:12*
Surr: Trifluoromethyl benzene	*107*			*70-130*	*%REC*	*1*	*21-Jul-2015 02:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

Batch ID: 95374 **Method:** MISCELLANEOUS PESTICIDES BY SW8081B **Prep:** 3510_P

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15070742-02	1	1000	10	0.01
HS15070742-02	1	1000	10	0.01

Batch ID: 95397 **Method:** LOW-LEVEL TEXAS TPH BY TX1005 **Prep:** TX 1005_W PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15070742-01	1	31.9	3	0.1
HS15070742-02	1	32.1	3	0.1

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 95374	**Test Name :** MISCELLANEOUS PESTICIDES BY SW8081B			**Matrix:** Groundwater		
HS15070742-02	B-3/TMW-3	16 Jul 2015 10:40		20 Jul 2015 07:06	22 Jul 2015 16:37	1
HS15070742-02	B-3/TMW-3	16 Jul 2015 10:40		20 Jul 2015 07:06	22 Jul 2015 16:37	1
HS15070742-02	B-3/TMW-3	16 Jul 2015 10:40		20 Jul 2015 07:06	22 Jul 2015 16:37	1
HS15070742-02	B-3/TMW-3	16 Jul 2015 10:40		20 Jul 2015 07:06	22 Jul 2015 16:37	1
Batch ID 95397	**Test Name :** LOW-LEVEL TEXAS TPH BY TX1005			**Matrix:** Groundwater		
HS15070742-01	B-2/TMW-2	15 Jul 2015 13:25		20 Jul 2015 14:49	21 Jul 2015 01:40	1
HS15070742-02	B-3/TMW-3	16 Jul 2015 10:40		20 Jul 2015 14:49	21 Jul 2015 02:12	1
Batch ID R258245	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Groundwater		
HS15070742-01	B-2/TMW-2	15 Jul 2015 13:25			21 Jul 2015 01:15	1
Batch ID R258365	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Groundwater		
HS15070742-02	B-3/TMW-3	16 Jul 2015 10:40			22 Jul 2015 15:00	1

WorkOrder: HS15070742
InstrumentID: ECD_1
Test Code: 8081_W
Test Number: SW8081
Test Name: Organochlorine Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	4,4´-DDD	72-54-8	0.050	0.022	0.0080	0.10
A	4,4´-DDE	72-55-9	0.050	0.021	0.0040	0.10
A	4,4´-DDT	50-29-3	0.050	0.022	0.0070	0.10
A	Aldrin	309-00-2	0.025	0.011	0.010	0.050
A	alpha-BHC	319-84-6	0.050	0.035	0.010	0.050
A	beta-BHC	319-85-7	0.025	0.012	0.010	0.050
A	Chlordane	57-74-9	0.50	0.37	0.10	0.50
A	delta-BHC	319-86-8	0.025	0.0093	0.010	0.050
A	Dieldrin	60-57-1	0.050	0.022	0.010	0.10
A	Endosulfan I	959-98-8	0.025	0.011	0.010	0.050
A	Endosulfan II	33213-65-9	0.050	0.016	0.020	0.10
A	Endosulfan sulfate	1031-07-8	0.050	0.024	0.030	0.10
A	Endrin	72-20-8	0.050	0.023	0.030	0.10
A	Endrin aldehyde	7421-93-4	0.050	0.028	0.030	0.10
A	Endrin ketone	53494-70-5	0.050	0.025	0.030	0.10
A	gamma-BHC	58-89-9	0.025	0.010	0.010	0.050
A	Heptachlor	76-44-8	0.025	0.012	0.010	0.050
A	Heptachlor epoxide	1024-57-3	0.025	0.013	0.010	0.050
A	Methoxychlor	72-43-5	0.25	0.13	0.15	0.50
A	Toxaphene	8001-35-2	0.50	0.34	0.19	0.50
S	Decachlorobiphenyl	2051-24-3	0	0	0	0
S	Tetrachloro-m-xylene	877-09-8	0	0	0	0

WorkOrder: HS15070742
InstrumentID: ECD_1
Test Code: 8081-MISC_W
Test Number: SW8081
Test Name: Miscellaneous Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	alpha-Chlordane	5103-71-9	0.025	0.013	0.020	0.050
A	gamma-Chlordane	5566-34-7	0.025	0.015	0.020	0.050

WorkOrder: HS15070742
InstrumentID: FID-12
Test Code: TX1005_W_Low
Test Number: TX1005
Test Name: Low-level Texas TPH by TX1005

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	nC6 to nC12	TPHGRO	0.25	0.30	0.20	0.50
A	>nC12 to nC28	TPHDRO	0.25	0.34	0.20	0.50
A	>nC28 to nC35	10W40MOTOROIL	0.25	0.34	0.20	0.50
A	Total Petroleum Hydrocarbon	TPH	0.50	0.63	0.20	0.50
S	2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Trifluoromethyl benzene	98-08-8	0	0	0	0

WorkOrder: HS15070742
InstrumentID: VOA2
Test Code: 8260_LL_W
Test Number: SW8260
Test Name: Low Level Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,1,1-Trichloroethane	71-55-6	0.50	0.52	0.20	1.0
A	1,1,2,2-Tetrachloroethane	79-34-5	0.50	0.52	0.50	1.0
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.50	0.61	1.0	1.0
A	1,1,2-Trichloroethane	79-00-5	0.50	0.51	0.30	1.0
A	1,1-Dichloroethane	75-34-3	0.50	0.56	0.20	1.0
A	1,1-Dichloroethene	75-35-4	0.50	0.54	0.20	1.0
A	1,2,4-Trichlorobenzene	120-82-1	0.50	0.69	0.50	1.0
A	1,2-Dibromo-3-chloropropane	96-12-8	0.50	0.43	1.0	1.0
A	1,2-Dibromoethane	106-93-4	0.50	0.52	0.20	1.0
A	1,2-Dichlorobenzene	95-50-1	0.50	0.53	0.50	1.0
A	1,2-Dichloroethane	107-06-2	0.50	0.72	0.20	1.0
A	1,2-Dichloropropane	78-87-5	0.50	0.59	0.50	1.0
A	1,3-Dichlorobenzene	541-73-1	0.50	0.48	0.40	1.0
A	1,4-Dichlorobenzene	106-46-7	0.50	0.60	0.40	1.0
A	2-Butanone	78-93-3	0.50	1.1	0.50	2.0
A	2-Hexanone	591-78-6	1.0	1.0	1.0	2.0
A	4-Methyl-2-pentanone	108-10-1	1.0	1.0	0.70	2.0
A	Acetone	67-64-1	1.0	2.3	2.0	2.0
A	Benzene	71-43-2	0.50	0.50	0.20	1.0
A	Bromodichloromethane	75-27-4	0.50	0.47	0.20	1.0
A	Bromoform	75-25-2	0.50	0.66	0.40	1.0
A	Bromomethane	74-83-9	0.50	0.60	0.40	1.0
A	Carbon disulfide	75-15-0	1.0	1.1	0.60	2.0
A	Carbon tetrachloride	56-23-5	0.50	0.60	0.50	1.0
A	Chlorobenzene	108-90-7	0.50	0.57	0.30	1.0
A	Chloroethane	75-00-3	0.50	0.49	0.30	1.0
A	Chloroform	67-66-3	0.50	0.53	0.20	1.0
A	Chloromethane	74-87-3	0.50	1.5	0.20	1.0
A	cis-1,2-Dichloroethene	156-59-2	0.50	0.71	0.20	1.0
A	cis-1,3-Dichloropropene	10061-01-5	0.50	0.48	0.10	1.0
A	Cyclohexane	110-82-7	0.50	0.55	0.30	1.0
A	Dibromochloromethane	124-48-1	0.50	0.53	0.30	1.0
A	Dichlorodifluoromethane	75-71-8	0.50	0.50	0.30	1.0
A	Ethylbenzene	100-41-4	0.50	0.48	0.30	1.0
A	Isopropylbenzene	98-82-8	0.50	0.51	0.30	1.0
A	m,p-Xylene	179601-23-1	1.0	0.84	0.50	2.0
A	Methyl acetate	79-20-9	0.50	0.98	1.0	1.0
A	Methyl tert-butyl ether	1634-04-4	0.50	0.55	0.20	1.0
A	Methylcyclohexane	108-87-2	0.50	0.35	0.30	1.0
A	Methylene chloride	75-09-2	0.50	1.1	1.0	2.0
A	o-Xylene	95-47-6	0.50	0.47	0.30	1.0

WorkOrder: HS15070742
InstrumentID: VOA2
Test Code: 8260_LL_W
Test Number: SW8260
Test Name: Low Level Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Styrene	100-42-5	0.50	0.53	0.30	1.0
A	Tetrachloroethene	127-18-4	0.50	0.54	0.30	1.0
A	Toluene	108-88-3	0.50	0.51	0.20	1.0
A	trans-1,2-Dichloroethene	156-60-5	0.50	0.14	0.20	1.0
A	trans-1,3-Dichloropropene	10061-02-6	0.50	0.49	0.20	1.0
A	Trichloroethene	79-01-6	0.50	0.79	0.20	1.0
A	Trichlorofluoromethane	75-69-4	0.50	0.48	0.30	1.0
A	Vinyl chloride	75-01-4	0.50	0.59	0.20	1.0
A	Xylenes, Total	1330-20-7	1.5	1.3	0.50	3.0
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	1.0
S	4-Bromofluorobenzene	460-00-4	0	0	0	1.0
S	Dibromofluoromethane	1868-53-7	0	0	0	1.0
S	Toluene-d8	2037-26-5	0	0	0	1.0

WorkOrder: HS15070742
InstrumentID: VOA6
Test Code: 8260_LL_W
Test Number: SW8260
Test Name: Low Level Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,1,1-Trichloroethane	71-55-6	0.50	0.62	0.20	1.0
A	1,1,2,2-Tetrachloroethane	79-34-5	0.50	0.47	0.50	1.0
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.50	0.71	1.0	1.0
A	1,1,2-Trichloroethane	79-00-5	0.50	0.54	0.30	1.0
A	1,1-Dichloroethane	75-34-3	0.50	0.63	0.20	1.0
A	1,1-Dichloroethene	75-35-4	0.50	0.74	0.20	1.0
A	1,2,4-Trichlorobenzene	120-82-1	0.50	3.2	0.50	1.0
A	1,2-Dibromo-3-chloropropane	96-12-8	0.50	0.56	1.0	1.0
A	1,2-Dibromoethane	106-93-4	0.50	0.56	0.20	1.0
A	1,2-Dichlorobenzene	95-50-1	0.50	0.62	0.50	1.0
A	1,2-Dichloroethane	107-06-2	0.50	0.66	0.20	1.0
A	1,2-Dichloropropane	78-87-5	0.50	0.63	0.50	1.0
A	1,3-Dichlorobenzene	541-73-1	0.50	0.61	0.40	1.0
A	1,4-Dichlorobenzene	106-46-7	0.50	0.64	0.40	1.0
A	2-Butanone	78-93-3	1.0	1.5	0.50	2.0
A	2-Hexanone	591-78-6	1.0	1.1	1.0	2.0
A	4-Methyl-2-pentanone	108-10-1	1.0	1.1	0.70	2.0
A	Acetone	67-64-1	1.0	4.5	2.0	2.0
A	Benzene	71-43-2	0.50	0.62	0.20	1.0
A	Bromodichloromethane	75-27-4	0.50	0.60	0.20	1.0
A	Bromoform	75-25-2	0.50	0.68	0.40	1.0
A	Bromomethane	74-83-9	0.50	1.0	0.40	1.0
A	Carbon disulfide	75-15-0	1.0	1.4	0.60	2.0
A	Carbon tetrachloride	56-23-5	0.50	0.69	0.50	1.0
A	Chlorobenzene	108-90-7	0.50	0.59	0.30	1.0
A	Chloroethane	75-00-3	0.50	0.87	0.30	1.0
A	Chloroform	67-66-3	0.50	0.64	0.20	1.0
A	Chloromethane	74-87-3	0.50	1.1	0.20	1.0
A	cis-1,2-Dichloroethene	156-59-2	0.50	0.61	0.20	1.0
A	cis-1,3-Dichloropropene	10061-01-5	0.50	0.52	0.10	1.0
A	Cyclohexane	110-82-7	0.50	0.72	0.30	1.0
A	Dibromochloromethane	124-48-1	0.50	0.59	0.30	1.0
A	Dichlorodifluoromethane	75-71-8	0.50	1.0	0.30	1.0
A	Ethylbenzene	100-41-4	0.50	0.65	0.30	1.0
A	Isopropylbenzene	98-82-8	0.50	0.62	0.30	1.0
A	m,p-Xylene	179601-23-1	1.0	1.5	0.50	2.0
A	Methyl acetate	79-20-9	0.50	0.65	1.0	1.0
A	Methyl tert-butyl ether	1634-04-4	0.50	0.64	0.20	1.0
A	Methylcyclohexane	108-87-2	0.50	0.50	0.30	1.0
A	Methylene chloride	75-09-2	0.50	0.17	1.0	2.0
A	o-Xylene	95-47-6	0.50	0.70	0.30	1.0

WorkOrder: HS15070742
InstrumentID: VOA6
Test Code: 8260_LL_W
Test Number: SW8260
Test Name: Low Level Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Styrene	100-42-5	0.50	0.54	0.30	1.0
A	Tetrachloroethene	127-18-4	0.50	0.61	0.30	1.0
A	Toluene	108-88-3	0.50	0.87	0.20	1.0
A	trans-1,2-Dichloroethene	156-60-5	0.50	0.60	0.20	1.0
A	trans-1,3-Dichloropropene	10061-02-6	0.50	1.7	0.20	1.0
A	Trichloroethene	79-01-6	0.50	0.66	0.20	1.0
A	Trichlorofluoromethane	75-69-4	0.50	0.78	0.30	1.0
A	Vinyl chloride	75-01-4	0.50	0.84	0.20	1.0
A	Xylenes, Total	1330-20-7	1.5	2.2	0.50	3.0
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	1.0
S	4-Bromofluorobenzene	460-00-4	0	0	0	1.0
S	Dibromofluoromethane	1868-53-7	0	0	0	1.0
S	Toluene-d8	2037-26-5	0	0	0	1.0

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: 95374 **Instrument: ECD_1** **Method: SW8081**

MBLK Sample ID: **MBLK-95374** Units: **ug/L** Analysis Date: **22-Jul-2015 16:53**
Client ID: Run ID: **ECD_1_258380** SeqNo: **3365123** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	0.10								
4,4´-DDE	U	0.10								
4,4´-DDT	U	0.10								
Aldrin	U	0.050								
alpha-BHC	U	0.050								
beta-BHC	U	0.050								
Chlordane	U	0.50								
delta-BHC	U	0.050								
Dieldrin	U	0.10								
Endosulfan I	U	0.050								
Endosulfan II	U	0.10								
Endosulfan sulfate	U	0.10								
Endrin	U	0.10								
Endrin aldehyde	U	0.10								
Endrin ketone	U	0.10								
gamma-BHC	U	0.050								
Heptachlor	U	0.050								
Heptachlor epoxide	U	0.050								
Methoxychlor	U	0.50								
Toxaphene	U	0.50								
Surr: Decachlorobiphenyl	*0.2319*	*0*	*0.2*	*0*	*116*	*54.9 - 145*				
Surr: Tetrachloro-m-xylene	*0.263*	*0*	*0.2*	*0*	*132*	*51.5 - 142*				

MBLK Sample ID: **MBLK-95374** Units: **ug/L** Analysis Date: **22-Jul-2015 16:53**
Client ID: Run ID: **ECD_1_258380** SeqNo: **3365131** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	U	0.050								
gamma-Chlordane	U	0.050								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: 95374 **Instrument: ECD_1** **Method: SW8081**

LCS Sample ID: **LCS-95374** Units: **ug/L** Analysis Date: **22-Jul-2015 17:09**
Client ID: Run ID: **ECD_1_258380** SeqNo: **3365124** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.575	0.10	0.5	0	115	53 - 144				
4,4´-DDE	0.5794	0.10	0.5	0	116	55 - 144				
4,4´-DDT	0.5854	0.10	0.5	0	117	53 - 149				
Aldrin	0.2757	0.050	0.25	0	110	47 - 141				
alpha-BHC	0.2534	0.050	0.25	0	101	51 - 141				
beta-BHC	0.2805	0.050	0.25	0	112	58 - 144				
delta-BHC	0.236	0.050	0.25	0	94.4	48 - 146				
Dieldrin	0.5656	0.10	0.5	0	113	56 - 144				
Endosulfan I	0.2775	0.050	0.25	0	111	55 - 141				
Endosulfan II	0.5635	0.10	0.5	0	113	57 - 144				
Endosulfan sulfate	0.5647	0.10	0.5	0	113	58 - 145				
Endrin	0.5904	0.10	0.5	0	118	60 - 163				
Endrin aldehyde	0.5776	0.10	0.5	0	116	59 - 158				
Endrin ketone	0.5654	0.10	0.5	0	113	59 - 154				
gamma-BHC	0.2811	0.050	0.25	0	112	53 - 142				
Heptachlor	0.3018	0.050	0.25	0	121	51 - 144				
Heptachlor epoxide	0.2773	0.050	0.25	0	111	55 - 142				
Methoxychlor	3.123	0.50	2.5	0	125	59 - 150				
Surr: Decachlorobiphenyl	*0.222*	*0*	*0.2*	*0*	*111*	*54.9 - 145*				
Surr: Tetrachloro-m-xylene	*0.2357*	*0*	*0.2*	*0*	*118*	*51.5 - 142*				

LCS Sample ID: **LCS-95374** Units: **ug/L** Analysis Date: **22-Jul-2015 17:09**
Client ID: Run ID: **ECD_1_258380** SeqNo: **3365132** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	0.2834	0.050	0.25	0	113	55 - 141				
gamma-Chlordane	0.2779	0.050	0.25	0	111	55 - 137				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: 95374 **Instrument: ECD_1** **Method: SW8081**

MS Sample ID: **HS15070710-03MS** Units: **ug/L** Analysis Date: **22-Jul-2015 18:16**
Client ID: Run ID: **ECD_1_258380** SeqNo: **3365126** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.4649	0.10	0.5	0	93.0	53 - 144				
4,4´-DDE	0.5044	0.10	0.5	0	101	55 - 144				
4,4´-DDT	0.5053	0.10	0.5	0	101	53 - 149				
Aldrin	0.2339	0.050	0.25	0	93.6	47 - 141				
alpha-BHC	0.2244	0.050	0.25	0	89.8	51 - 141				
beta-BHC	0.2396	0.050	0.25	0	95.8	58 - 144				
delta-BHC	0.1915	0.050	0.25	0	76.6	48 - 146				
Dieldrin	0.4881	0.10	0.5	0	97.6	56 - 144				
Endosulfan I	0.2372	0.050	0.25	0	94.9	55 - 141				
Endosulfan II	0.4841	0.10	0.5	0	96.8	57 - 144				
Endosulfan sulfate	0.4724	0.10	0.5	0	94.5	58 - 145				
Endrin	0.5247	0.10	0.5	0	105	60 - 163				
Endrin aldehyde	0.4763	0.10	0.5	0	95.3	59 - 158				
Endrin ketone	0.4956	0.10	0.5	0	99.1	59 - 154				
gamma-BHC	0.2375	0.050	0.25	0	95.0	53 - 142				
Heptachlor	0.2616	0.050	0.25	0	105	51 - 144				
Heptachlor epoxide	0.2406	0.050	0.25	0	96.2	55 - 142				
Methoxychlor	2.758	0.50	2.5	0	110	59 - 150				
Surr: Decachlorobiphenyl	*0.1908*	*0*	*0.2*	*0*	*95.4*	*54.9 - 145*				
Surr: Tetrachloro-m-xylene	*0.2133*	*0*	*0.2*	*0*	*107*	*51.5 - 142*				

MS Sample ID: **HS15070710-03MS** Units: **ug/L** Analysis Date: **22-Jul-2015 18:16**
Client ID: Run ID: **ECD_1_258380** SeqNo: **3365134** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	0.2391	0.050	0.25	0	95.6	55 - 141				
gamma-Chlordane	0.2359	0.050	0.25	0	94.4	55 - 137				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: 95374 **Instrument: ECD_1** **Method: SW8081**

MSD Sample ID: **HS15070710-03MSD** Units: **ug/L** Analysis Date: **22-Jul-2015 18:32**
Client ID: Run ID: **ECD_1_258380** SeqNo: **3365127** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
4,4´-DDD	0.4832	0.10	0.5	0	96.6	53 - 144	0.4649	3.86	20	
4,4´-DDE	0.5144	0.10	0.5	0	103	55 - 144	0.5044	1.98	20	
4,4´-DDT	0.5172	0.10	0.5	0	103	53 - 149	0.5053	2.33	20	
Aldrin	0.2392	0.050	0.25	0	95.7	47 - 141	0.2339	2.23	20	
alpha-BHC	0.2313	0.050	0.25	0	92.5	51 - 141	0.2244	3.05	20	
beta-BHC	0.2441	0.050	0.25	0	97.7	58 - 144	0.2396	1.88	20	
delta-BHC	0.1964	0.050	0.25	0	78.6	48 - 146	0.1915	2.53	20	
Dieldrin	0.4971	0.10	0.5	0	99.4	56 - 144	0.4881	1.82	20	
Endosulfan I	0.2388	0.050	0.25	0	95.5	55 - 141	0.2372	0.681	20	
Endosulfan II	0.4935	0.10	0.5	0	98.7	57 - 144	0.4841	1.94	20	
Endosulfan sulfate	0.4845	0.10	0.5	0	96.9	58 - 145	0.4724	2.52	20	
Endrin	0.5314	0.10	0.5	0	106	60 - 163	0.5247	1.28	20	
Endrin aldehyde	0.4844	0.10	0.5	0	96.9	59 - 158	0.4763	1.69	20	
Endrin ketone	0.5077	0.10	0.5	0	102	59 - 154	0.4956	2.41	20	
gamma-BHC	0.2452	0.050	0.25	0	98.1	53 - 142	0.2375	3.17	20	
Heptachlor	0.2676	0.050	0.25	0	107	51 - 144	0.2616	2.26	20	
Heptachlor epoxide	0.2454	0.050	0.25	0	98.2	55 - 142	0.2406	1.99	20	
Methoxychlor	2.798	0.50	2.5	0	112	59 - 150	2.758	1.43	20	
Surr: Decachlorobiphenyl	*0.1938*	*0*	*0.2*	*0*	*96.9*	*54.9 - 145*	*0.1908*	*1.53*	*20*	
Surr: Tetrachloro-m-xylene	*0.2169*	*0*	*0.2*	*0*	*108*	*51.5 - 142*	*0.2133*	*1.71*	*20*	

MSD Sample ID: **HS15070710-03MSD** Units: **ug/L** Analysis Date: **22-Jul-2015 18:32**
Client ID: Run ID: **ECD_1_258380** SeqNo: **3365135** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
alpha-Chlordane	0.2458	0.050	0.25	0	98.3	55 - 141	0.2391	2.76	20	
gamma-Chlordane	0.2404	0.050	0.25	0	96.2	55 - 137	0.2359	1.89	20	

The following samples were anayzed in this batch: HS15070742-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: 95397 **Instrument: FID-12** **Method: TX1005**

MBLK Sample ID: **MBLK-95397** Units: **mg/L** Analysis Date: **20-Jul-2015 19:03**
Client ID: Run ID: **FID-12_258262** SeqNo: **3362166** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	0.50								
>nC12 to nC28	U	0.50								
>nC28 to nC35	U	0.50								
Total Petroleum Hydrocarbon	U	0.50								
Surr: 2-Fluorobiphenyl	*2.221*	*0*	*2.5*	*0*	*88.8*	*70 - 130*				
Surr: Trifluoromethyl benzene	*2.041*	*0*	*2.5*	*0*	*81.6*	*70 - 130*				

LCS Sample ID: **LCS-95397** Units: **mg/L** Analysis Date: **20-Jul-2015 19:37**
Client ID: Run ID: **FID-12_258262** SeqNo: **3362167** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	23.86	0.50	25	0	95.4	75 - 125				
>nC12 to nC28	25.37	0.50	25	0	101	75 - 125				
Surr: 2-Fluorobiphenyl	*2.724*	*0*	*2.5*	*0*	*109*	*70 - 130*				
Surr: Trifluoromethyl benzene	*2.173*	*0*	*2.5*	*0*	*86.9*	*70 - 130*				

LCSD Sample ID: **LCSD-95397** Units: **mg/L** Analysis Date: **20-Jul-2015 20:11**
Client ID: Run ID: **FID-12_258262** SeqNo: **3362168** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	24.29	0.50	25	0	97.2	75 - 125	23.86	1.77	20	
>nC12 to nC28	24.97	0.50	25	0	99.9	75 - 125	25.37	1.56	20	
Surr: 2-Fluorobiphenyl	*2.632*	*0*	*2.5*	*0*	*105*	*70 - 130*	*2.724*	*3.44*	*20*	
Surr: Trifluoromethyl benzene	*2.219*	*0*	*2.5*	*0*	*88.8*	*70 - 130*	*2.173*	*2.09*	*20*	

MS Sample ID: **HS15070685-01MS** Units: **mg/L** Analysis Date: **20-Jul-2015 22:57**
Client ID: Run ID: **FID-12_258262** SeqNo: **3362173** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	23.82	0.50	25	0	95.3	75 - 125				
>nC12 to nC28	24.25	0.50	25	0	97.0	75 - 125				
Surr: 2-Fluorobiphenyl	*2.459*	*0*	*2.5*	*0*	*98.3*	*70 - 130*				
Surr: Trifluoromethyl benzene	*2.305*	*0*	*2.5*	*0*	*92.2*	*70 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: 95397 **Instrument: FID-12** **Method: TX1005**

MSD Sample ID: **HS15070685-01MSD** Units: **mg/L** Analysis Date: **20-Jul-2015 23:29**
Client ID: Run ID: **FID-12_258262** SeqNo: **3362174** PrepDate: **20-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	23.23	0.50	25	0	92.9	75 - 125	23.82	2.5	20	
>nC12 to nC28	23.47	0.50	25	0	93.9	75 - 125	24.25	3.29	20	
Surr: 2-Fluorobiphenyl	*2.349*	*0*	*2.5*	*0*	*93.9*	*70 - 130*	*2.459*	*4.58*	*20*	
Surr: Trifluoromethyl benzene	*2.217*	*0*	*2.5*	*0*	*88.7*	*70 - 130*	*2.305*	*3.88*	*20*	

The following samples were anayzed in this batch: HS15070742-01 HS15070742-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258245 **Instrument: VOA2** **Method: SW8260**

MBLK Sample ID: **VBLKW_150720** Units: **ug/L** Analysis Date: **20-Jul-2015 15:51**
Client ID: Run ID: **VOA2_258245** SeqNo: **3361928** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	2.0								
2-Hexanone	U	2.0								
4-Methyl-2-pentanone	U	2.0								
Acetone	U	2.0								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258245 **Instrument: VOA2** **Method: SW8260**

MBLK Sample ID: **VBLKW_150720** Units: **ug/L** Analysis Date: **20-Jul-2015 15:51**
Client ID: Run ID: **VOA2_258245** SeqNo: **3361928** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	1.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	2.0								
o-Xylene	U	1.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								
trans-1,2-Dichloroethene	U	1.0								
trans-1,3-Dichloropropene	U	1.0								
Trichloroethene	U	1.0								
Trichlorofluoromethane	U	1.0								
Vinyl chloride	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	*48.63*	*1.0*	*50*	*0*	*97.3*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*51.06*	*1.0*	*50*	*0*	*102*	*70 - 125*				
Surr: Dibromofluoromethane	*50.4*	*1.0*	*50*	*0*	*101*	*74 - 125*				
Surr: Toluene-d8	*51.11*	*1.0*	*50*	*0*	*102*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258245 **Instrument: VOA2** **Method: SW8260**

LCS Sample ID: **VLCSW_150720** Units: **ug/L** Analysis Date: **20-Jul-2015 15:00**
Client ID: Run ID: **VOA2_258245** SeqNo: **3361927** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.82	1.0	50	0	93.6	75 - 130				
1,1,2,2-Tetrachloroethane	44.45	1.0	50	0	88.9	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	46.97	1.0	50	0	93.9	70 - 130				
1,1,2-Trichloroethane	45.31	1.0	50	0	90.6	80 - 120				
1,1-Dichloroethane	45.52	1.0	50	0	91.0	76 - 120				
1,1-Dichloroethene	46.3	1.0	50	0	92.6	75 - 130				
1,2,4-Trichlorobenzene	45.95	1.0	50	0	91.9	75 - 126				
1,2-Dibromo-3-chloropropane	45.56	1.0	50	0	91.1	65 - 125				
1,2-Dibromoethane	44.58	1.0	50	0	89.2	80 - 121				
1,2-Dichlorobenzene	44.94	1.0	50	0	89.9	80 - 120				
1,2-Dichloroethane	43.25	1.0	50	0	86.5	76 - 120				
1,2-Dichloropropane	45.82	1.0	50	0	91.6	80 - 120				
1,3-Dichlorobenzene	46.34	1.0	50	0	92.7	80 - 120				
1,4-Dichlorobenzene	45.61	1.0	50	0	91.2	80 - 120				
2-Butanone	94.29	2.0	100	0	94.3	60 - 140				
2-Hexanone	89.5	2.0	100	0	89.5	60 - 131				
4-Methyl-2-pentanone	93.31	2.0	100	0	93.3	60 - 135				
Acetone	84.7	2.0	100	0	84.7	60 - 140				
Benzene	46.15	1.0	50	0	92.3	80 - 120				
Bromodichloromethane	46.19	1.0	50	0	92.4	75 - 125				
Bromoform	42.95	1.0	50	0	85.9	70 - 130				
Bromomethane	47.78	1.0	50	0	95.6	60 - 140				
Carbon disulfide	89.83	2.0	100	0	89.8	70 - 130				
Carbon tetrachloride	46.34	1.0	50	0	92.7	75 - 125				
Chlorobenzene	45.85	1.0	50	0	91.7	80 - 120				
Chloroethane	47.68	1.0	50	0	95.4	70 - 130				
Chloroform	46.15	1.0	50	0	92.3	70 - 130				
Chloromethane	46.18	1.0	50	0	92.4	65 - 130				
cis-1,2-Dichloroethene	44.92	1.0	50	0	89.8	75 - 125				
cis-1,3-Dichloropropene	46.54	1.0	50	0	93.1	79 - 125				
Cyclohexane	47.14	1.0	50	0	94.3	70 - 130				
Dibromochloromethane	44.23	1.0	50	0	88.5	70 - 130				
Dichlorodifluoromethane	42.33	1.0	50	0	84.7	60 - 140				
Ethylbenzene	47.36	1.0	50	0	94.7	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258245 **Instrument: VOA2** **Method: SW8260**

LCS Sample ID: **VLCSW_150720** Units: **ug/L** Analysis Date: **20-Jul-2015 15:00**
Client ID: Run ID: **VOA2_258245** SeqNo: **3361927** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	49.01	1.0	50	0	98.0	75 - 130				
m,p-Xylene	93.28	2.0	100	0	93.3	80 - 120				
Methyl acetate	45.05	1.0	50	0	90.1	76 - 122				
Methyl tert-butyl ether	46.51	1.0	50	0	93.0	70 - 130				
Methylcyclohexane	47.92	1.0	50	0	95.8	70 - 126				
Methylene chloride	42.81	2.0	50	0	85.6	65 - 133				
o-Xylene	47.25	1.0	50	0	94.5	80 - 120				
Styrene	46.7	1.0	50	0	93.4	78 - 122				
Tetrachloroethene	45.04	1.0	50	0	90.1	75 - 130				
Toluene	46.75	1.0	50	0	93.5	75 - 121				
trans-1,2-Dichloroethene	46.24	1.0	50	0	92.5	75 - 125				
trans-1,3-Dichloropropene	46.54	1.0	50	0	93.1	76 - 125				
Trichloroethene	47.62	1.0	50	0	95.2	71 - 125				
Trichlorofluoromethane	45.85	1.0	50	0	91.7	67 - 132				
Vinyl chloride	43.81	1.0	50	0	87.6	70 - 135				
Xylenes, Total	140.5	3.0	150	0	93.7	79 - 124				
Surr: 1,2-Dichloroethane-d4	*48.08*	*1.0*	*50*	*0*	*96.2*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*51.41*	*1.0*	*50*	*0*	*103*	*70 - 125*				
Surr: Dibromofluoromethane	*50.19*	*1.0*	*50*	*0*	*100*	*74 - 125*				
Surr: Toluene-d8	*50.13*	*1.0*	*50*	*0*	*100*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258245 **Instrument: VOA2** **Method: SW8260**

MS Sample ID: **HS15070706-10MS** Units: **ug/L** Analysis Date: **20-Jul-2015 17:09**
Client ID: Run ID: **VOA2_258245** SeqNo: **3361931** PrepDate: DF: **5**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	252.4	5.0	250	0	101	75 - 130				
1,1,2,2-Tetrachloroethane	236.2	5.0	250	0	94.5	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	250.9	5.0	250	0	100	70 - 130				
1,1,2-Trichloroethane	239.1	5.0	250	0	95.6	80 - 120				
1,1-Dichloroethane	243.2	5.0	250	0	97.3	76 - 120				
1,1-Dichloroethene	250.9	5.0	250	0	100	75 - 130				
1,2,4-Trichlorobenzene	211.6	5.0	250	0	84.6	75 - 126				
1,2-Dibromo-3-chloropropane	242.5	5.0	250	0	97.0	65 - 125				
1,2-Dibromoethane	231.4	5.0	250	0	92.6	80 - 121				
1,2-Dichlorobenzene	219.6	5.0	250	0	87.8	80 - 120				
1,2-Dichloroethane	214.3	5.0	250	0	85.7	76 - 120				
1,2-Dichloropropane	237.1	5.0	250	0	94.8	80 - 120				
1,3-Dichlorobenzene	225.2	5.0	250	0	90.1	80 - 120				
1,4-Dichlorobenzene	221.5	5.0	250	0	88.6	80 - 120				
2-Butanone	554.8	10	500	0	111	60 - 140				
2-Hexanone	508.5	10	500	0	102	60 - 131				
4-Methyl-2-pentanone	519.8	10	500	0	104	60 - 135				
Acetone	515	10	500	0	103	60 - 140				
Benzene	534.6	5.0	250	317.9	86.6	80 - 120				
Bromodichloromethane	239.7	5.0	250	0	95.9	75 - 125				
Bromoform	219.9	5.0	250	0	88.0	70 - 130				
Bromomethane	259.3	5.0	250	0	104	60 - 140				
Carbon disulfide	490.2	10	500	0	98.0	70 - 130				
Carbon tetrachloride	255.6	5.0	250	0	102	79 - 120				
Chlorobenzene	234	5.0	250	0	93.6	80 - 120				
Chloroethane	268.9	5.0	250	0	108	70 - 130				
Chloroform	246.2	5.0	250	0	98.5	70 - 130				
Chloromethane	248.5	5.0	250	0	99.4	65 - 130				
cis-1,2-Dichloroethene	241.5	5.0	250	0	96.6	75 - 125				
cis-1,3-Dichloropropene	239.8	5.0	250	0	95.9	79 - 125				
Cyclohexane	413.8	5.0	250	0	166	70 - 130				S
Dibromochloromethane	226.2	5.0	250	0	90.5	70 - 130				
Dichlorodifluoromethane	231.2	5.0	250	0	92.5	60 - 140				
Ethylbenzene	352.1	5.0	250	118.4	93.5	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258245 **Instrument: VOA2** **Method: SW8260**

MS Sample ID: **HS15070706-10MS** Units: **ug/L** Analysis Date: **20-Jul-2015 17:09**
Client ID: Run ID: **VOA2_258245** SeqNo: **3361931** PrepDate: DF: **5**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	292.2	5.0	250	0	117	75 - 130				
m,p-Xylene	577.6	10	500	117.7	92.0	80 - 120				
Methyl acetate	318.5	5.0	250	0	127	76 - 122				S
Methyl tert-butyl ether	240.3	5.0	250	0	96.1	70 - 130				
Methylcyclohexane	315.8	5.0	250	0	126	70 - 126				S
Methylene chloride	232.4	10	250	0	93.0	65 - 133				
o-Xylene	246.7	5.0	250	7.813	95.6	80 - 120				
Styrene	227.8	5.0	250	0	91.1	78 - 122				
Tetrachloroethene	234.8	5.0	250	0	93.9	75 - 130				
Toluene	265.8	5.0	250	26.08	95.9	75 - 121				
trans-1,2-Dichloroethene	251.1	5.0	250	0	100	75 - 125				
trans-1,3-Dichloropropene	239.8	5.0	250	0	95.9	76 - 125				
Trichloroethene	252.6	5.0	250	0	101	71 - 125				
Trichlorofluoromethane	249	5.0	250	0	99.6	67 - 132				
Vinyl chloride	254.3	5.0	250	0	102	70 - 135				
Xylenes, Total	824.3	15	750	125.5	93.2	80 - 124				
Surr: 1,2-Dichloroethane-d4	*247.4*	*5.0*	*250*	*0*	*99.0*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*257.4*	*5.0*	*250*	*0*	*103*	*70 - 125*				
Surr: Dibromofluoromethane	*248.7*	*5.0*	*250*	*0*	*99.5*	*74 - 125*				
Surr: Toluene-d8	*251.9*	*5.0*	*250*	*0*	*101*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258245 **Instrument: VOA2** **Method: SW8260**

MSD Sample ID: **HS15070706-10MSD** Units: **ug/L** Analysis Date: **20-Jul-2015 17:35**
Client ID: Run ID: **VOA2_258245** SeqNo: **3361932** PrepDate: DF: **5**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	258.7	5.0	250	0	103	75 - 130	252.4	2.45	20	
1,1,2,2-Tetrachloroethane	247	5.0	250	0	98.8	74 - 123	236.2	4.47	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	255	5.0	250	0	102	70 - 130	250.9	1.62	20	
1,1,2-Trichloroethane	242.1	5.0	250	0	96.8	80 - 120	239.1	1.26	20	
1,1-Dichloroethane	248.9	5.0	250	0	99.6	76 - 120	243.2	2.31	20	
1,1-Dichloroethene	263.5	5.0	250	0	105	75 - 130	250.9	4.91	20	
1,2,4-Trichlorobenzene	232.9	5.0	250	0	93.2	75 - 126	211.6	9.59	20	
1,2-Dibromo-3-chloropropane	254.3	5.0	250	0	102	65 - 125	242.5	4.75	20	
1,2-Dibromoethane	236.7	5.0	250	0	94.7	80 - 121	231.4	2.27	20	
1,2-Dichlorobenzene	230.1	5.0	250	0	92.0	80 - 120	219.6	4.64	20	
1,2-Dichloroethane	226.5	5.0	250	0	90.6	76 - 120	214.3	5.52	20	
1,2-Dichloropropane	247.1	5.0	250	0	98.8	80 - 120	237.1	4.15	20	
1,3-Dichlorobenzene	235.9	5.0	250	0	94.4	80 - 120	225.2	4.64	20	
1,4-Dichlorobenzene	231.5	5.0	250	0	92.6	80 - 120	221.5	4.43	20	
2-Butanone	566.4	10	500	0	113	60 - 140	554.8	2.07	20	
2-Hexanone	517.9	10	500	0	104	60 - 131	508.5	1.84	20	
4-Methyl-2-pentanone	533	10	500	0	107	60 - 135	519.8	2.51	20	
Acetone	527.7	10	500	0	106	60 - 140	515	2.44	20	
Benzene	548.7	5.0	250	317.9	92.3	80 - 120	534.6	2.61	20	
Bromodichloromethane	247.7	5.0	250	0	99.1	75 - 125	239.7	3.3	20	
Bromoform	226.1	5.0	250	0	90.5	70 - 130	219.9	2.79	20	
Bromomethane	275.9	5.0	250	0	110	60 - 140	259.3	6.19	20	
Carbon disulfide	493.2	10	500	0	98.6	70 - 130	490.2	0.618	20	
Carbon tetrachloride	257.3	5.0	250	0	103	75 - 125	255.6	0.684	20	
Chlorobenzene	239	5.0	250	0	95.6	80 - 120	234	2.14	20	
Chloroethane	267.4	5.0	250	0	107	70 - 130	268.9	0.561	20	
Chloroform	253.8	5.0	250	0	102	70 - 130	246.2	3.01	20	
Chloromethane	246	5.0	250	0	98.4	65 - 130	248.5	1.02	20	
cis-1,2-Dichloroethene	235.6	5.0	250	0	94.2	75 - 125	241.5	2.51	20	
cis-1,3-Dichloropropene	249.1	5.0	250	0	99.7	79 - 125	239.8	3.84	20	
Cyclohexane	416.2	5.0	250	0	166	70 - 130	413.8	0.569	20	S
Dibromochloromethane	228.6	5.0	250	0	91.5	70 - 130	226.2	1.08	20	
Dichlorodifluoromethane	226.6	5.0	250	0	90.7	60 - 140	231.2	2.01	20	
Ethylbenzene	360.3	5.0	250	118.4	96.8	80 - 120	352.1	2.3	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258245 **Instrument: VOA2** **Method: SW8260**

MSD Sample ID: **HS15070706-10MSD** Units: **ug/L** Analysis Date: **20-Jul-2015 17:35**
Client ID: Run ID: **VOA2_258245** SeqNo: **3361932** PrepDate: DF: **5**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Isopropylbenzene	300.1	5.0	250	0	120	75 - 130	292.2	2.67	20	
m,p-Xylene	586.5	10	500	117.7	93.8	80 - 120	577.6	1.54	20	
Methyl acetate	320.9	5.0	250	0	128	76 - 122	318.5	0.78	20	S
Methyl tert-butyl ether	246.8	5.0	250	0	98.7	70 - 130	240.3	2.68	20	
Methylcyclohexane	327.3	5.0	250	0	131	70 - 126	315.8	3.57	20	S
Methylene chloride	240.2	10	250	0	96.1	65 - 133	232.4	3.29	20	
o-Xylene	252.7	5.0	250	7.813	97.9	80 - 120	246.7	2.39	20	
Styrene	236.8	5.0	250	0	94.7	78 - 122	227.8	3.89	20	
Tetrachloroethene	239.6	5.0	250	0	95.9	75 - 130	234.8	2.03	20	
Toluene	271.8	5.0	250	26.08	98.3	75 - 121	265.8	2.22	20	
trans-1,2-Dichloroethene	253.6	5.0	250	0	101	75 - 125	251.1	1.01	20	
trans-1,3-Dichloropropene	249.1	5.0	250	0	99.7	76 - 125	239.8	3.84	20	
Trichloroethene	262.9	5.0	250	0	105	71 - 125	252.6	4	20	
Trichlorofluoromethane	250	5.0	250	0	100	67 - 132	249	0.394	20	
Vinyl chloride	248.3	5.0	250	0	99.3	70 - 135	254.3	2.4	20	
Xylenes, Total	839.2	15	750	125.5	95.2	80 - 124	824.3	1.79	20	
Surr: 1,2-Dichloroethane-d4	*245.9*	*5.0*	*250*	*0*	*98.4*	*71 - 125*	*247.4*	*0.602*	*20*	
Surr: 4-Bromofluorobenzene	*257.3*	*5.0*	*250*	*0*	*103*	*70 - 125*	*257.4*	*0.0532*	*20*	
Surr: Dibromofluoromethane	*247.7*	*5.0*	*250*	*0*	*99.1*	*74 - 125*	*248.7*	*0.397*	*20*	
Surr: Toluene-d8	*249.5*	*5.0*	*250*	*0*	*99.8*	*75 - 125*	*251.9*	*0.974*	*20*	

The following samples were anayzed in this batch: HS15070742-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258365 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-150722** Units: **ug/L** Analysis Date: **22-Jul-2015 12:10**
Client ID: Run ID: **VOA6_258365** SeqNo: **3364430** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	2.0								
2-Hexanone	U	2.0								
4-Methyl-2-pentanone	U	2.0								
Acetone	U	2.0								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258365 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-150722** Units: **ug/L** Analysis Date: **22-Jul-2015 12:10**
Client ID: Run ID: **VOA6_258365** SeqNo: **3364430** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	1.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	2.0								
o-Xylene	U	1.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								
trans-1,2-Dichloroethene	U	1.0								
trans-1,3-Dichloropropene	U	1.0								
Trichloroethene	U	1.0								
Trichlorofluoromethane	U	1.0								
Vinyl chloride	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	*41.45*	*1.0*	*50*	*0*	*82.9*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*47.84*	*1.0*	*50*	*0*	*95.7*	*70 - 125*				
Surr: Dibromofluoromethane	*48.73*	*1.0*	*50*	*0*	*97.5*	*74 - 125*				
Surr: Toluene-d8	*45.48*	*1.0*	*50*	*0*	*91.0*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258365 **Instrument: VOA6** **Method: SW8260**

LCS Sample ID: **VLCSW-150722** Units: **ug/L** Analysis Date: **22-Jul-2015 10:57**
Client ID: Run ID: **VOA6_258365** SeqNo: **3364429** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.37	1.0	50	0	101	75 - 130				
1,1,2,2-Tetrachloroethane	40.38	1.0	50	0	80.8	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	56.1	1.0	50	0	112	70 - 130				
1,1,2-Trichloroethane	44.92	1.0	50	0	89.8	80 - 120				
1,1-Dichloroethane	51.43	1.0	50	0	103	76 - 120				
1,1-Dichloroethene	56.25	1.0	50	0	112	75 - 130				
1,2,4-Trichlorobenzene	47.83	1.0	50	0	95.7	75 - 126				
1,2-Dibromo-3-chloropropane	46.56	1.0	50	0	93.1	65 - 125				
1,2-Dibromoethane	46.17	1.0	50	0	92.3	80 - 121				
1,2-Dichlorobenzene	43.89	1.0	50	0	87.8	80 - 120				
1,2-Dichloroethane	43.2	1.0	50	0	86.4	76 - 120				
1,2-Dichloropropane	54.91	1.0	50	0	110	80 - 120				
1,3-Dichlorobenzene	44.52	1.0	50	0	89.0	80 - 120				
1,4-Dichlorobenzene	44.28	1.0	50	0	88.6	80 - 120				
2-Butanone	117.5	2.0	100	0	117	60 - 140				
2-Hexanone	89.88	2.0	100	0	89.9	60 - 131				
4-Methyl-2-pentanone	89.5	2.0	100	0	89.5	60 - 135				
Acetone	102.9	2.0	100	0	103	60 - 140				
Benzene	54.39	1.0	50	0	109	80 - 120				
Bromodichloromethane	50.33	1.0	50	0	101	75 - 125				
Bromoform	46.86	1.0	50	0	93.7	70 - 130				
Bromomethane	50.42	1.0	50	0	101	60 - 140				
Carbon disulfide	113.5	2.0	100	0	114	70 - 130				
Carbon tetrachloride	50.41	1.0	50	0	101	75 - 125				
Chlorobenzene	47.77	1.0	50	0	95.5	80 - 120				
Chloroethane	50.17	1.0	50	0	100	70 - 130				
Chloroform	50.71	1.0	50	0	101	70 - 130				
Chloromethane	55.91	1.0	50	0	112	65 - 130				
cis-1,2-Dichloroethene	56.49	1.0	50	0	113	75 - 125				
cis-1,3-Dichloropropene	53.69	1.0	50	0	107	79 - 125				
Cyclohexane	59.33	1.0	50	0	119	70 - 130				
Dibromochloromethane	46.64	1.0	50	0	93.3	70 - 130				
Dichlorodifluoromethane	46.1	1.0	50	0	92.2	60 - 140				
Ethylbenzene	48.09	1.0	50	0	96.2	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258365 **Instrument: VOA6** **Method: SW8260**

LCS Sample ID: **VLCSW-150722** Units: **ug/L** Analysis Date: **22-Jul-2015 10:57**
Client ID: Run ID: **VOA6_258365** SeqNo: **3364429** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	47.01	1.0	50	0	94.0	75 - 130				
m,p-Xylene	95.22	2.0	100	0	95.2	80 - 120				
Methyl acetate	56.47	1.0	50	0	113	76 - 122				
Methyl tert-butyl ether	49.77	1.0	50	0	99.5	70 - 130				
Methylcyclohexane	57.81	1.0	50	0	116	70 - 126				
Methylene chloride	54.03	2.0	50	0	108	65 - 133				
o-Xylene	47.58	1.0	50	0	95.2	80 - 120				
Styrene	48.53	1.0	50	0	97.1	78 - 122				
Tetrachloroethene	49.63	1.0	50	0	99.3	75 - 130				
Toluene	45.91	1.0	50	0	91.8	75 - 121				
trans-1,2-Dichloroethene	59.82	1.0	50	0	120	75 - 125				
trans-1,3-Dichloropropene	55.58	1.0	50	0	111	76 - 125				
Trichloroethene	56.19	1.0	50	0	112	71 - 125				
Trichlorofluoromethane	46.7	1.0	50	0	93.4	67 - 132				
Vinyl chloride	52.99	1.0	50	0	106	70 - 135				
Xylenes, Total	142.8	3.0	150	0	95.2	79 - 124				
Surr: 1,2-Dichloroethane-d4	*40.62*	*1.0*	*50*	*0*	*81.2*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*51.22*	*1.0*	*50*	*0*	*102*	*70 - 125*				
Surr: Dibromofluoromethane	*48.16*	*1.0*	*50*	*0*	*96.3*	*74 - 125*				
Surr: Toluene-d8	*44.39*	*1.0*	*50*	*0*	*88.8*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258365 **Instrument: VOA6** **Method: SW8260**

MS Sample ID: **HS15070873-01MS** Units: **ug/L** Analysis Date: **22-Jul-2015 13:47**
Client ID: Run ID: **VOA6_258365** SeqNo: **3364432** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.17	1.0	50	0	92.3	75 - 130				
1,1,2,2-Tetrachloroethane	41.44	1.0	50	0	82.9	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	50.12	1.0	50	0	100	70 - 130				
1,1,2-Trichloroethane	44.78	1.0	50	0	89.6	80 - 120				
1,1-Dichloroethane	51.13	1.0	50	0.7229	101	76 - 120				
1,1-Dichloroethene	49.83	1.0	50	0	99.7	75 - 130				
1,2,4-Trichlorobenzene	41.48	1.0	50	0	83.0	75 - 126				
1,2-Dibromo-3-chloropropane	45.06	1.0	50	0	90.1	65 - 125				
1,2-Dibromoethane	46.47	1.0	50	0	92.9	80 - 121				
1,2-Dichlorobenzene	41.43	1.0	50	0	82.9	80 - 120				
1,2-Dichloroethane	42.37	1.0	50	0	84.7	76 - 120				
1,2-Dichloropropane	51.97	1.0	50	0	104	80 - 120				
1,3-Dichlorobenzene	40.64	1.0	50	0	81.3	80 - 120				
1,4-Dichlorobenzene	40.69	1.0	50	0	81.4	80 - 120				
2-Butanone	120.1	2.0	100	0	120	60 - 140				
2-Hexanone	93.35	2.0	100	0	93.4	60 - 131				
4-Methyl-2-pentanone	93.5	2.0	100	0	93.5	60 - 135				
Acetone	99.93	2.0	100	0	99.9	60 - 140				
Benzene	51.29	1.0	50	0	103	80 - 120				
Bromodichloromethane	47.61	1.0	50	0	95.2	75 - 125				
Bromoform	47.47	1.0	50	0	94.9	70 - 130				
Bromomethane	51.09	1.0	50	0	102	60 - 140				
Carbon disulfide	118.5	2.0	100	0	118	70 - 130				
Carbon tetrachloride	43.55	1.0	50	0	87.1	79 - 120				
Chlorobenzene	45.55	1.0	50	0	91.1	80 - 120				
Chloroethane	48.53	1.0	50	0	97.1	70 - 130				
Chloroform	49.38	1.0	50	0	98.8	70 - 130				
Chloromethane	59.77	1.0	50	0	120	65 - 130				
cis-1,2-Dichloroethene	55.39	1.0	50	0	111	75 - 125				
cis-1,3-Dichloropropene	54.54	1.0	50	0	109	79 - 125				
Cyclohexane	52.13	1.0	50	0	104	70 - 130				
Dibromochloromethane	46.42	1.0	50	0	92.8	70 - 130				
Dichlorodifluoromethane	56.87	1.0	50	0	114	60 - 140				
Ethylbenzene	44.53	1.0	50	0	89.1	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258365 **Instrument: VOA6** **Method: SW8260**

MS Sample ID: **HS15070873-01MS** Units: **ug/L** Analysis Date: **22-Jul-2015 13:47**
Client ID: Run ID: **VOA6_258365** SeqNo: **3364432** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	41.73	1.0	50	0	83.5	75 - 130				
m,p-Xylene	87.4	2.0	100	0	87.4	80 - 120				
Methyl acetate	55.95	1.0	50	0	112	76 - 122				
Methyl tert-butyl ether	49.89	1.0	50	0	99.8	70 - 130				
Methylcyclohexane	41.86	1.0	50	0	83.7	70 - 126				
Methylene chloride	55.5	2.0	50	0	111	65 - 133				
o-Xylene	44.37	1.0	50	0	88.7	80 - 120				
Styrene	37.85	1.0	50	0	75.7	78 - 122				S
Tetrachloroethene	44.15	1.0	50	0	88.3	75 - 130				
Toluene	43	1.0	50	0	86.0	75 - 121				
trans-1,2-Dichloroethene	55.91	1.0	50	0	112	75 - 125				
trans-1,3-Dichloropropene	52.72	1.0	50	0	105	76 - 125				
Trichloroethene	59.18	1.0	50	0	118	71 - 125				
Trichlorofluoromethane	42.72	1.0	50	0	85.4	67 - 132				
Vinyl chloride	51.65	1.0	50	0	103	70 - 135				
Xylenes, Total	131.8	3.0	150	0	87.9	80 - 124				
Surr: 1,2-Dichloroethane-d4	*41.24*	*1.0*	*50*	*0*	*82.5*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*51.18*	*1.0*	*50*	*0*	*102*	*70 - 125*				
Surr: Dibromofluoromethane	*48.54*	*1.0*	*50*	*0*	*97.1*	*74 - 125*				
Surr: Toluene-d8	*44.23*	*1.0*	*50*	*0*	*88.5*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258365 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15070873-01MSD** Units: **ug/L** Analysis Date: **22-Jul-2015 14:11**
Client ID: Run ID: **VOA6_258365** SeqNo: **3364433** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.23	1.0	50	0	98.5	75 - 130	46.17	6.41	20	
1,1,2,2-Tetrachloroethane	42.35	1.0	50	0	84.7	74 - 123	41.44	2.18	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	56.36	1.0	50	0	113	70 - 130	50.12	11.7	20	
1,1,2-Trichloroethane	46.27	1.0	50	0	92.5	80 - 120	44.78	3.29	20	
1,1-Dichloroethane	52.57	1.0	50	0.7229	104	76 - 120	51.13	2.78	20	
1,1-Dichloroethene	54.27	1.0	50	0	109	75 - 130	49.83	8.53	20	
1,2,4-Trichlorobenzene	47.71	1.0	50	0	95.4	75 - 126	41.48	14	20	
1,2-Dibromo-3-chloropropane	50.86	1.0	50	0	102	65 - 125	45.06	12.1	20	
1,2-Dibromoethane	47.22	1.0	50	0	94.4	80 - 121	46.47	1.6	20	
1,2-Dichlorobenzene	44.74	1.0	50	0	89.5	80 - 120	41.43	7.7	20	
1,2-Dichloroethane	44.2	1.0	50	0	88.4	76 - 120	42.37	4.23	20	
1,2-Dichloropropane	53.38	1.0	50	0	107	80 - 120	51.97	2.67	20	
1,3-Dichlorobenzene	44.07	1.0	50	0	88.1	80 - 120	40.64	8.09	20	
1,4-Dichlorobenzene	43.46	1.0	50	0	86.9	80 - 120	40.69	6.59	20	
2-Butanone	120.7	2.0	100	0	121	60 - 140	120.1	0.538	20	
2-Hexanone	95.22	2.0	100	0	95.2	60 - 131	93.35	1.99	20	
4-Methyl-2-pentanone	94.91	2.0	100	0	94.9	60 - 135	93.5	1.5	20	
Acetone	101.3	2.0	100	0	101	60 - 140	99.93	1.38	20	
Benzene	54.36	1.0	50	0	109	80 - 120	51.29	5.81	20	
Bromodichloromethane	48.92	1.0	50	0	97.8	75 - 125	47.61	2.71	20	
Bromoform	48.25	1.0	50	0	96.5	70 - 130	47.47	1.63	20	
Bromomethane	54.35	1.0	50	0	109	60 - 140	51.09	6.18	20	
Carbon disulfide	127.4	2.0	100	0	127	70 - 130	118.5	7.3	20	
Carbon tetrachloride	49.39	1.0	50	0	98.8	75 - 125	43.55	12.6	20	
Chlorobenzene	47.91	1.0	50	0	95.8	80 - 120	45.55	5.04	20	
Chloroethane	51.8	1.0	50	0	104	70 - 130	48.53	6.53	20	
Chloroform	49.89	1.0	50	0	99.8	70 - 130	49.38	1.04	20	
Chloromethane	63.24	1.0	50	0	126	65 - 130	59.77	5.65	20	
cis-1,2-Dichloroethene	55.4	1.0	50	0	111	75 - 125	55.39	0.0161	20	
cis-1,3-Dichloropropene	56.29	1.0	50	0	113	79 - 125	54.54	3.15	20	
Cyclohexane	59.03	1.0	50	0	118	70 - 130	52.13	12.4	20	
Dibromochloromethane	46.56	1.0	50	0	93.1	70 - 130	46.42	0.285	20	
Dichlorodifluoromethane	62.29	1.0	50	0	125	60 - 140	56.87	9.08	20	
Ethylbenzene	48.1	1.0	50	0	96.2	80 - 120	44.53	7.71	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070742

QC BATCH REPORT

Batch ID: R258365 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15070873-01MSD** Units: **ug/L** Analysis Date: **22-Jul-2015 14:11**
Client ID: Run ID: **VOA6_258365** SeqNo: **3364433** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Isopropylbenzene	46.3	1.0	50	0	92.6	75 - 130	41.73	10.4	20	
m,p-Xylene	93.84	2.0	100	0	93.8	80 - 120	87.4	7.1	20	
Methyl acetate	54.04	1.0	50	0	108	76 - 122	55.95	3.48	20	
Methyl tert-butyl ether	50.77	1.0	50	0	102	70 - 130	49.89	1.75	20	
Methylcyclohexane	57.56	1.0	50	0	115	70 - 126	41.86	31.6	20	R
Methylene chloride	56.19	2.0	50	0	112	65 - 133	55.5	1.23	20	
o-Xylene	47.52	1.0	50	0	95.0	80 - 120	44.37	6.86	20	
Styrene	38.22	1.0	50	0	76.4	78 - 122	37.85	0.981	20	S
Tetrachloroethene	48.58	1.0	50	0	97.2	75 - 130	44.15	9.55	20	
Toluene	45.78	1.0	50	0	91.6	75 - 121	43	6.25	20	
trans-1,2-Dichloroethene	59.43	1.0	50	0	119	75 - 125	55.91	6.12	20	
trans-1,3-Dichloropropene	54.4	1.0	50	0	109	76 - 125	52.72	3.13	20	
Trichloroethene	56.4	1.0	50	0	113	71 - 125	59.18	4.8	20	
Trichlorofluoromethane	48.02	1.0	50	0	96.0	67 - 132	42.72	11.7	20	
Vinyl chloride	55.59	1.0	50	0	111	70 - 135	51.65	7.35	20	
Xylenes, Total	141.4	3.0	150	0	94.2	80 - 124	131.8	7.02	20	
Surr: 1,2-Dichloroethane-d4	*39.91*	*1.0*	*50*	*0*	*79.8*	*71 - 125*	*41.24*	*3.27*	*20*	
Surr: 4-Bromofluorobenzene	*51.68*	*1.0*	*50*	*0*	*103*	*70 - 125*	*51.18*	*0.964*	*20*	
Surr: Dibromofluoromethane	*47.72*	*1.0*	*50*	*0*	*95.4*	*74 - 125*	*48.54*	*1.72*	*20*	
Surr: Toluene-d8	*44.89*	*1.0*	*50*	*0*	*89.8*	*75 - 125*	*44.23*	*1.47*	*20*	

The following samples were anayzed in this batch: HS15070742-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: **HS15070742**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Jul-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Work Order: HS15070742

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15070742-01	B-2/TMW-2	Login	7/17/2015 2:18:10 PM	BHH	VW-3
HS15070742-01	B-2/TMW-2	Login	7/17/2015 2:18:10 PM	BHH	TPH C1
HS15070742-02	B-3/TMW-3	Login	7/17/2015 2:18:10 PM	BHH	2D
HS15070742-02	B-3/TMW-3	Login	7/17/2015 2:18:10 PM	BHH	VW-3
HS15070742-02	B-3/TMW-3	Login	7/17/2015 2:18:10 PM	BHH	TPH C1
HS15070742-03	DUP-1	Login	7/17/2015 2:18:10 PM	BHH	2D

ALS Group USA, Corp Date: 23-Jul-15

Sample Receipt Checklist

Client Name: WM_Fort Worth Date/Time Received: **16-Jul-2015 14:30**

Work Order: HS15070742 Received by: **BHH**

Checklist completed by: *Baudelio Hernandez* 17-Jul-2015
eSignature Date

Reviewed by: *Bernadette A. Fini* 17-Jul-2015
eSignature Date

Matrices: **Water** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.8c / 2.1c u/c		IR#4
Cooler(s)/Kit(s):	42535		
Date/Time sample(s) sent to storage:	07/17/2015 14:40		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Everett, WA +1 425 356 2600 | Fort Collins, CO +1 970 490 1511 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 125062

HS15070742

W&M Environmental Group, L.L.C

1483.001

/V

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	
Work Order		Project Number	1483001
Company Name	W&M Environmental Group, L.L.C	Bill To Company	W&M Environmental Group, L.L.C
Send Report To	Paul Rodusky	Invoice Attn	Accounts Payable
Address	6825 Manhattan Blvd. Suite 125	Address	6825 Manhattan Blvd. Suite 125
City/State/Zip	Fort Worth, TX 76120	City/State/Zip	Fort Worth, TX 76120
Phone	817-402-3128	Phone	817-402-3128
Fax		Fax	
e-Mail Address		e-Mail Address	

A	~~ICP Wipe (Lead Only)~~ R2
B	TPH, 1005
C	VOC, 8260
D	Organochlorinated pesticides
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-2/TMW-2	7/15/15	1325	GW	HCl	4		X	X								
2	B-3/TMW-3	7/16/15	1040	GW	HCl/None	5		X	X	X							
3	DUP-1	7/16/15	1040	GW	None	1											X
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Ross Zapalac

Shipment Method:

Required Turnaround Time: (Check Box) TAT: 3 days Other:

Results Due Date:

Relinquished by:	Date: 7/16/15	Time: 1230	Received by:
Relinquished by:	Date: 7/16/15	Time: 2:30p	Received by (Laboratory):
Logged by (Laboratory):	Date: 7-16-15	Time: 1520	Checked by (Laboratory): 7/17/15 0940

Notes: [WM Base Pricing]

Cooler ID	Cooler Temp.
42535	

QC Package: (Check One Box Below)

QC Level: ~~TRRP LRC~~

Other: TRRP

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

July 27, 2015

Paul Rodusky
W&M Environmental Group, L.L.C
6825 Manhattan Blvd.
Suite 125
Fort Worth, TX 76120

Work Order: **HS15070916**

Laboratory Results for: **1483.001**

Dear Paul,

ALS Environmental received 1 sample(s) on Jul 21, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Dayna.Fisher
Bernadette A. Fini
Project Manager

Client:	W&M Environmental Group, L.L.C	**TRRP Laboratory Data Package Cover Page**
Project:	1483.001	
WorkOrder:	**HS15070916**	

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:

a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:

a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

ALS Group USA, Corp Date: 27-Jul-15

Client:	W&M Environmental Group, L.L.C
Project:	1483.001
WorkOrder:	**HS15070916**

TRRP Laboratory Data Package Cover Page

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bernadette A. Fini
Project Manager

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 07/27/2015				
Project Name: 1483.001			Laboratory Job Number: HS15070916				
Reviewer Name: Bernadette A. Fini			Prep Batch Number(s): 94580a, R258553				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within laboratory QC limits?		X			4
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				5

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 07/27/2015				
Project Name: 1483.001			Laboratory Job Number: HS15070916				
Reviewer Name: Bernadette A. Fini			Prep Batch Number(s): 94580a, R258553				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?		X			6
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 07/27/2015
Project Name: 1483.001	Laboratory Job Number: HS15070916
Reviewer Name: Bernadette A. Fini	Prep Batch Number(s): 94580a, R258553

ER#[5]	Description
1	Volatile Organics Method SW8260, sample B-4/TMW-4, surrogates 1,2-Dichloroethane-d4 and Dibromofluoromethane recovered above the upper control limits
2	Batch R258553, Volatile Organics Method SW8260, LCS recoveries were above the control limits for 1,2-Dibromoethane, 2-Hexanone, Dibromochloromethane and Tetrachloroethene. The associated results are Non Detect for these compounds in the batch.
3	Batch R258553, Volatile Organics Method SW8260, sample HS15070599-02, MS and MSD were performed on unrelated sample.
4	Batch R258553, Volatile Organics Method SW8260, sample HS15070599-02, MS/MSD RPD were performed on unrelated sample.
5	With the exception of cyclohexane, ALS is NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package. Because TCEQ does not offer accreditation for this compound, the results are flagged with n.
6	Batch R258553, Volatile Organics Method SW8260, CCV %D was above the control limits for 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 2-Hexanone, and Carbon disulfide. Samples are non-detect for these compounds.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Work Order: HS15070916

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15070916-01	B-4/TMW-4	Groundwater		21-Jul-2015 09:35	21-Jul-2015 15:50	☐

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-4/TMW-4
Collection Date: 21-Jul-2015 09:35

ANALYTICAL REPORT
WorkOrder:HS15070916
Lab ID:HS15070916-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**						Analyst: KMB
1,1,1-Trichloroethane	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
1,1,2,2-Tetrachloroethane	U		0.50	1.0	ug/L	1	24-Jul-2015 15:15
1,1,2-Trichlor-1,2,2-trifluoroethane	U		1.0	1.0	ug/L	1	24-Jul-2015 15:15
1,1,2-Trichloroethane	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
1,1-Dichloroethane	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
1,1-Dichloroethene	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
1,2,4-Trichlorobenzene	U		0.50	1.0	ug/L	1	24-Jul-2015 15:15
1,2-Dibromo-3-chloropropane	U		1.0	1.0	ug/L	1	24-Jul-2015 15:15
1,2-Dibromoethane	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
1,2-Dichlorobenzene	U		0.50	1.0	ug/L	1	24-Jul-2015 15:15
1,2-Dichloroethane	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
1,2-Dichloropropane	U		0.50	1.0	ug/L	1	24-Jul-2015 15:15
1,3-Dichlorobenzene	U		0.40	1.0	ug/L	1	24-Jul-2015 15:15
1,4-Dichlorobenzene	U		0.40	1.0	ug/L	1	24-Jul-2015 15:15
2-Butanone	U		0.50	2.0	ug/L	1	24-Jul-2015 15:15
2-Hexanone	U		1.0	2.0	ug/L	1	24-Jul-2015 15:15
4-Methyl-2-pentanone	U		0.70	2.0	ug/L	1	24-Jul-2015 15:15
Acetone	U		2.0	2.0	ug/L	1	24-Jul-2015 15:15
Benzene	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
Bromodichloromethane	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
Bromoform	U		0.40	1.0	ug/L	1	24-Jul-2015 15:15
Bromomethane	U		0.40	1.0	ug/L	1	24-Jul-2015 15:15
Carbon disulfide	U		0.60	2.0	ug/L	1	24-Jul-2015 15:15
Carbon tetrachloride	U		0.50	1.0	ug/L	1	24-Jul-2015 15:15
Chlorobenzene	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Chloroethane	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Chloroform	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
Chloromethane	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
cis-1,2-Dichloroethene	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
cis-1,3-Dichloropropene	U		0.10	1.0	ug/L	1	24-Jul-2015 15:15
Cyclohexane	U	n	0.30	1.0	ug/L	1	24-Jul-2015 15:15
Dibromochloromethane	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Dichlorodifluoromethane	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Ethylbenzene	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Isopropylbenzene	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
m,p-Xylene	U		0.50	2.0	ug/L	1	24-Jul-2015 15:15
Methyl acetate	U		1.0	1.0	ug/L	1	24-Jul-2015 15:15
Methyl tert-butyl ether	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
Methylcyclohexane	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-4/TMW-4
Collection Date: 21-Jul-2015 09:35

ANALYTICAL REPORT
WorkOrder:HS15070916
Lab ID:HS15070916-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: KMB
Methylene chloride	U		1.0	2.0	ug/L	1	24-Jul-2015 15:15
o-Xylene	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Styrene	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Tetrachloroethene	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Toluene	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
trans-1,2-Dichloroethene	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
trans-1,3-Dichloropropene	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
Trichloroethene	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
Trichlorofluoromethane	U		0.30	1.0	ug/L	1	24-Jul-2015 15:15
Vinyl chloride	U		0.20	1.0	ug/L	1	24-Jul-2015 15:15
Xylenes, Total	U		0.50	3.0	ug/L	1	24-Jul-2015 15:15
Surr: 1,2-Dichloroethane-d4	*130*	*S*		*71-125*	*%REC*	*1*	*24-Jul-2015 15:15*
Surr: 4-Bromofluorobenzene	*116*			*70-125*	*%REC*	*1*	*24-Jul-2015 15:15*
Surr: Dibromofluoromethane	*127*	*S*		*74-125*	*%REC*	*1*	*24-Jul-2015 15:15*
Surr: Toluene-d8	*122*			*75-125*	*%REC*	*1*	*24-Jul-2015 15:15*
LOW-LEVEL TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 23-Jul-2015		Analyst: JKP
nC6 to nC12	U		0.19	0.47	mg/L	1	24-Jul-2015 03:36
>nC12 to nC28	U		0.19	0.47	mg/L	1	24-Jul-2015 03:36
>nC28 to nC35	U		0.19	0.47	mg/L	1	24-Jul-2015 03:36
Total Petroleum Hydrocarbon	U		0.19	0.47	mg/L	1	24-Jul-2015 03:36
Surr: 2-Fluorobiphenyl	*127*			*70-130*	*%REC*	*1*	*24-Jul-2015 03:36*
Surr: Trifluoromethyl benzene	*110*			*70-130*	*%REC*	*1*	*24-Jul-2015 03:36*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 95480a	**Test Name :** LOW-LEVEL TEXAS TPH BY TX1005			**Matrix:** Groundwater		
HS15070916-01	B-4/TMW-4	21 Jul 2015 09:35		23 Jul 2015 09:21	24 Jul 2015 03:36	1
Batch ID R258553	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Groundwater		
HS15070916-01	B-4/TMW-4	21 Jul 2015 09:35			24 Jul 2015 15:15	1

WorkOrder: HS15070916
InstrumentID: FID-10
Test Code: TX1005_W_Low
Test Number: TX1005
Test Name: Low-level Texas TPH by TX1005

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	nC6 to nC12	TPHGRO	0.25	0.27	0.20	0.50
A	>nC12 to nC28	TPHDRO	0.25	0.20	0.20	0.50
A	>nC28 to nC35	10W40MOTOROIL	0.25	0.20	0.20	0.50
A	Total Petroleum Hydrocarbon	TPH	0.50	0.47	0.20	0.50
S	2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Trifluoromethyl benzene	98-08-8	0	0	0	0

WorkOrder: HS15070916
InstrumentID: VOA4
Test Code: 8260_LL_W
Test Number: SW8260
Test Name: Low Level Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,1,1-Trichloroethane	71-55-6	0.50	0.76	0.20	1.0
A	1,1,2,2-Tetrachloroethane	79-34-5	0.50	0.74	0.50	1.0
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.50	0.86	1.0	1.0
A	1,1,2-Trichloroethane	79-00-5	0.50	0.75	0.30	1.0
A	1,1-Dichloroethane	75-34-3	0.50	0.78	0.20	1.0
A	1,1-Dichloroethene	75-35-4	0.50	0.80	0.20	1.0
A	1,2,4-Trichlorobenzene	120-82-1	0.50	0.84	0.50	1.0
A	1,2-Dibromo-3-chloropropane	96-12-8	0.50	2.3	1.0	1.0
A	1,2-Dibromoethane	106-93-4	0.50	0.57	0.20	1.0
A	1,2-Dichlorobenzene	95-50-1	0.50	0.65	0.50	1.0
A	1,2-Dichloroethane	107-06-2	0.50	0.79	0.20	1.0
A	1,2-Dichloropropane	78-87-5	0.50	0.63	0.50	1.0
A	1,3-Dichlorobenzene	541-73-1	0.50	0.70	0.40	1.0
A	1,4-Dichlorobenzene	106-46-7	0.50	0.79	0.40	1.0
A	2-Butanone	78-93-3	1.0	1.4	0.50	2.0
A	2-Hexanone	591-78-6	1.0	1.4	1.0	2.0
A	4-Methyl-2-pentanone	108-10-1	1.0	1.2	0.70	2.0
A	Acetone	67-64-1	1.0	7.3	2.0	2.0
A	Benzene	71-43-2	0.50	0.74	0.20	1.0
A	Bromodichloromethane	75-27-4	0.50	0.73	0.20	1.0
A	Bromoform	75-25-2	0.50	1.8	0.40	1.0
A	Bromomethane	74-83-9	0.50	0.90	0.40	1.0
A	Carbon disulfide	75-15-0	1.0	1.4	0.60	2.0
A	Carbon tetrachloride	56-23-5	0.50	0.50	0.50	1.0
A	Chlorobenzene	108-90-7	0.50	0.72	0.30	1.0
A	Chloroethane	75-00-3	0.50	0.82	0.30	1.0
A	Chloroform	67-66-3	0.50	0.82	0.20	1.0
A	Chloromethane	74-87-3	0.50	0.71	0.20	1.0
A	cis-1,2-Dichloroethene	156-59-2	0.50	0.84	0.20	1.0
A	cis-1,3-Dichloropropene	10061-01-5	0.50	1.6	0.10	1.0
A	Cyclohexane	110-82-7	0.50	0.23	0.30	1.0
A	Dibromochloromethane	124-48-1	0.50	0.65	0.30	1.0
A	Dichlorodifluoromethane	75-71-8	0.50	0.68	0.30	1.0
A	Ethylbenzene	100-41-4	0.50	0.65	0.30	1.0
A	Isopropylbenzene	98-82-8	0.50	0.71	0.30	1.0
A	m,p-Xylene	179601-23-1	1.0	1.6	0.50	2.0
A	Methyl acetate	79-20-9	0.50	0.71	1.0	1.0
A	Methyl tert-butyl ether	1634-04-4	0.50	0.87	0.20	1.0
A	Methylcyclohexane	108-87-2	0.50	0.77	0.30	1.0
A	Methylene chloride	75-09-2	0.50	1.1	1.0	2.0
A	o-Xylene	95-47-6	0.50	0.70	0.30	1.0

WorkOrder: HS15070916
InstrumentID: VOA4
Test Code: 8260_LL_W
Test Number: SW8260
Test Name: Low Level Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Styrene	100-42-5	0.50	0.70	0.30	1.0
A	Tetrachloroethene	127-18-4	0.50	0.76	0.30	1.0
A	Toluene	108-88-3	0.50	1.4	0.20	1.0
A	trans-1,2-Dichloroethene	156-60-5	0.50	0.85	0.20	1.0
A	trans-1,3-Dichloropropene	10061-02-6	0.50	2.2	0.20	1.0
A	Trichloroethene	79-01-6	0.50	0.81	0.20	1.0
A	Trichlorofluoromethane	75-69-4	0.50	0.72	0.30	1.0
A	Vinyl chloride	75-01-4	0.50	0.69	0.20	1.0
A	Xylenes, Total	1330-20-7	1.5	2.3	0.50	3.0
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	1.0
S	4-Bromofluorobenzene	460-00-4	0	0	0	1.0
S	Dibromofluoromethane	1868-53-7	0	0	0	1.0
S	Toluene-d8	2037-26-5	0	0	0	1.0

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: 95480a **Instrument: FID-10** **Method: TX1005**

MBLK Sample ID: **MBLK-95480** Units: **mg/L** Analysis Date: **23-Jul-2015 14:54**
Client ID: Run ID: **FID-10_258486** SeqNo: **3367135** PrepDate: **23-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	0.50								
>nC12 to nC28	U	0.50								
>nC28 to nC35	U	0.50								
Total Petroleum Hydrocarbon	U	0.50								
Surr: 2-Fluorobiphenyl	*3.157*	*0*	*2.5*	*0*	*126*	*70 - 130*				
Surr: Trifluoromethyl benzene	*2.954*	*0*	*2.5*	*0*	*118*	*70 - 130*				

LCS Sample ID: **LCS-95480** Units: **mg/L** Analysis Date: **23-Jul-2015 15:24**
Client ID: Run ID: **FID-10_258486** SeqNo: **3367136** PrepDate: **23-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	24.39	0.50	25	0	97.6	75 - 125				
>nC12 to nC28	28.08	0.50	25	0	112	75 - 125				
Surr: 2-Fluorobiphenyl	*3.003*	*0*	*2.5*	*0*	*120*	*70 - 130*				
Surr: Trifluoromethyl benzene	*2.676*	*0*	*2.5*	*0*	*107*	*70 - 130*				

LCSD Sample ID: **LCSD-95480** Units: **mg/L** Analysis Date: **23-Jul-2015 15:55**
Client ID: Run ID: **FID-10_258486** SeqNo: **3367137** PrepDate: **23-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	24.93	0.50	25	0	99.7	75 - 125	24.39	2.18	20	
>nC12 to nC28	25.78	0.50	25	0	103	75 - 125	28.08	8.55	20	
Surr: 2-Fluorobiphenyl	*3.112*	*0*	*2.5*	*0*	*124*	*70 - 130*	*3.003*	*3.55*	*20*	
Surr: Trifluoromethyl benzene	*2.612*	*0*	*2.5*	*0*	*104*	*70 - 130*	*2.676*	*2.4*	*20*	

MS Sample ID: **HS15070884-01MS** Units: **mg/L** Analysis Date: **23-Jul-2015 15:55**
Client ID: Run ID: **FID-10_258486** SeqNo: **3367308** PrepDate: **23-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	27.38	0.45	22.43	0	122	75 - 125				
>nC12 to nC28	25.08	0.45	22.43	0	112	75 - 125				
Surr: 2-Fluorobiphenyl	*2.043*	*0*	*2.243*	*0*	*91.0*	*70 - 130*				
Surr: Trifluoromethyl benzene	*1.727*	*0*	*2.243*	*0*	*77.0*	*70 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: 95480a **Instrument: FID-10** **Method: TX1005**

MSD Sample ID: **HS15070884-01MSD** Units: **mg/L** Analysis Date: **23-Jul-2015 16:25**
Client ID: Run ID: **FID-10_258486** SeqNo: **3367309** PrepDate: **23-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	28.19	0.46	22.86	0	123	75 - 125	27.38	2.92	20	
>nC12 to nC28	27.05	0.46	22.86	0	118	75 - 125	25.08	7.56	20	
Surr: 2-Fluorobiphenyl	*2.356*	*0*	*2.286*	*0*	*103*	*70 - 130*	*2.043*	*14.3*	*20*	
Surr: Trifluoromethyl benzene	*1.833*	*0*	*2.286*	*0*	*80.2*	*70 - 130*	*1.727*	*5.95*	*20*	

The following samples were anayzed in this batch: HS15070916-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: R258553 **Instrument: VOA4** **Method: SW8260**

MBLK Sample ID: **VBLKW-150724** Units: **ug/L** Analysis Date: **24-Jul-2015 14:49**
Client ID: Run ID: **VOA4_258553** SeqNo: **3368643** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	2.0								
2-Hexanone	U	2.0								
4-Methyl-2-pentanone	U	2.0								
Acetone	U	2.0								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: R258553 **Instrument: VOA4** **Method: SW8260**

MBLK Sample ID: **VBLKW-150724** Units: **ug/L** Analysis Date: **24-Jul-2015 14:49**
Client ID: Run ID: **VOA4_258553** SeqNo: **3368643** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	1.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	2.0								
o-Xylene	U	1.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								
trans-1,2-Dichloroethene	U	1.0								
trans-1,3-Dichloropropene	U	1.0								
Trichloroethene	U	1.0								
Trichlorofluoromethane	U	1.0								
Vinyl chloride	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	*58.41*	*1.0*	*50*	*0*	*117*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*55.13*	*1.0*	*50*	*0*	*110*	*70 - 125*				
Surr: Dibromofluoromethane	*56.83*	*1.0*	*50*	*0*	*114*	*74 - 125*				
Surr: Toluene-d8	*55.83*	*1.0*	*50*	*0*	*112*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: R258553 **Instrument: VOA4** **Method: SW8260**

LCS Sample ID: **VLCSW-150724** Units: **ug/L** Analysis Date: **24-Jul-2015 13:46**
Client ID: Run ID: **VOA4_258553** SeqNo: **3368642** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.58	1.0	50	0	103	75 - 130				
1,1,2,2-Tetrachloroethane	55.1	1.0	50	0	110	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	56.15	1.0	50	0	112	70 - 130				
1,1,2-Trichloroethane	56.14	1.0	50	0	112	80 - 120				
1,1-Dichloroethane	51.57	1.0	50	0	103	76 - 120				
1,1-Dichloroethene	52.83	1.0	50	0	106	75 - 130				
1,2,4-Trichlorobenzene	55.97	1.0	50	0	112	75 - 126				
1,2-Dibromo-3-chloropropane	51.35	1.0	50	0	103	65 - 125				
1,2-Dibromoethane	81.33	1.0	50	0	163	80 - 121				S
1,2-Dichlorobenzene	52.44	1.0	50	0	105	80 - 120				
1,2-Dichloroethane	53.62	1.0	50	0	107	76 - 120				
1,2-Dichloropropane	52.25	1.0	50	0	105	80 - 120				
1,3-Dichlorobenzene	53.28	1.0	50	0	107	80 - 120				
1,4-Dichlorobenzene	53.59	1.0	50	0	107	80 - 120				
2-Butanone	100.6	2.0	100	0	101	60 - 140				
2-Hexanone	178	2.0	100	0	178	60 - 131				S
4-Methyl-2-pentanone	88.75	2.0	100	0	88.7	60 - 135				
Acetone	104.8	2.0	100	0	105	60 - 140				
Benzene	53	1.0	50	0	106	80 - 120				
Bromodichloromethane	51.02	1.0	50	0	102	75 - 125				
Bromoform	49.2	1.0	50	0	98.4	70 - 130				
Bromomethane	51.64	1.0	50	0	103	60 - 140				
Carbon disulfide	103.6	2.0	100	0	104	70 - 130				
Carbon tetrachloride	47.86	1.0	50	0	95.7	75 - 125				
Chlorobenzene	51.24	1.0	50	0	102	80 - 120				
Chloroethane	44.73	1.0	50	0	89.5	70 - 130				
Chloroform	51.76	1.0	50	0	104	70 - 130				
Chloromethane	51.62	1.0	50	0	103	65 - 130				
cis-1,2-Dichloroethene	54.19	1.0	50	0	108	75 - 125				
cis-1,3-Dichloropropene	48.85	1.0	50	0	97.7	79 - 125				
Cyclohexane	52.12	1.0	50	0	104	70 - 130				
Dibromochloromethane	99.36	1.0	50	0	199	70 - 130				S
Dichlorodifluoromethane	53.16	1.0	50	0	106	60 - 140				
Ethylbenzene	52.25	1.0	50	0	105	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: R258553 **Instrument: VOA4** **Method: SW8260**

LCS Sample ID: **VLCSW-150724** Units: **ug/L** Analysis Date: **24-Jul-2015 13:46**
Client ID: Run ID: **VOA4_258553** SeqNo: **3368642** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	55.38	1.0	50	0	111	75 - 130				
m,p-Xylene	104.9	2.0	100	0	105	80 - 120				
Methyl acetate	53.7	1.0	50	0	107	76 - 122				
Methyl tert-butyl ether	55.65	1.0	50	0	111	70 - 130				
Methylcyclohexane	54.73	1.0	50	0	109	70 - 126				
Methylene chloride	49.67	2.0	50	0	99.3	65 - 133				
o-Xylene	53.08	1.0	50	0	106	80 - 120				
Styrene	54.24	1.0	50	0	108	78 - 122				
Tetrachloroethene	82.86	1.0	50	0	166	75 - 130				S
Toluene	47.95	1.0	50	0	95.9	75 - 121				
trans-1,2-Dichloroethene	53	1.0	50	0	106	75 - 125				
trans-1,3-Dichloropropene	52.31	1.0	50	0	105	76 - 125				
Trichloroethene	51.01	1.0	50	0	102	71 - 125				
Trichlorofluoromethane	40.79	1.0	50	0	81.6	67 - 132				
Vinyl chloride	56.61	1.0	50	0	113	70 - 135				
Xylenes, Total	158	3.0	150	0	105	79 - 124				
Surr: 1,2-Dichloroethane-d4	*58.07*	*1.0*	*50*	*0*	*116*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*59.87*	*1.0*	*50*	*0*	*120*	*70 - 125*				
Surr: Dibromofluoromethane	*58.29*	*1.0*	*50*	*0*	*117*	*74 - 125*				
Surr: Toluene-d8	*58.45*	*1.0*	*50*	*0*	*117*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: R258553 **Instrument: VOA4** **Method: SW8260**

MS Sample ID: **HS15070599-02MS** Units: **ug/L** Analysis Date: **24-Jul-2015 17:36**
Client ID: Run ID: **VOA4_258553** SeqNo: **3368649** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
1,1,1-Trichloroethane	69.41	1.0	50	0	139	75 - 130			S
1,1,2,2-Tetrachloroethane	62.22	1.0	50	0	124	74 - 123			S
1,1,2-Trichlor-1,2,2-trifluoroethane	73.68	1.0	50	0	147	70 - 130			S
1,1,2-Trichloroethane	62.71	1.0	50	0	125	80 - 120			S
1,1-Dichloroethane	62.18	1.0	50	0	124	76 - 120			S
1,1-Dichloroethene	68.34	1.0	50	0	137	75 - 130			S
1,2,4-Trichlorobenzene	59.93	1.0	50	0	120	75 - 126			
1,2-Dibromo-3-chloropropane	55.7	1.0	50	0	111	65 - 125			
1,2-Dibromoethane	58.98	1.0	50	0	118	80 - 121			
1,2-Dichlorobenzene	59.56	1.0	50	0	119	80 - 120			
1,2-Dichloroethane	62.21	1.0	50	0	124	76 - 120			S
1,2-Dichloropropane	61.79	1.0	50	0	124	80 - 120			S
1,3-Dichlorobenzene	62.62	1.0	50	0	125	80 - 120			S
1,4-Dichlorobenzene	61.22	1.0	50	0	122	80 - 120			S
2-Butanone	116.3	2.0	100	0	116	60 - 140			
2-Hexanone	131	2.0	100	0	131	60 - 131			
4-Methyl-2-pentanone	104.3	2.0	100	0	104	60 - 135			
Acetone	97.82	2.0	100	0	97.8	60 - 140			
Benzene	63.01	1.0	50	0	126	80 - 120			S
Bromodichloromethane	60.88	1.0	50	0	122	75 - 125			
Bromoform	59.33	1.0	50	0	119	70 - 130			
Bromomethane	63.69	1.0	50	0	127	60 - 140			
Carbon disulfide	133.2	2.0	100	0	133	70 - 130			S
Carbon tetrachloride	63.17	1.0	50	0	126	79 - 120			S
Chlorobenzene	60.93	1.0	50	0	122	80 - 120			S
Chloroethane	58.45	1.0	50	0	117	70 - 130			
Chloroform	61.93	1.0	50	0	124	70 - 130			
Chloromethane	50.66	1.0	50	0	101	65 - 130			
cis-1,2-Dichloroethene	66.36	1.0	50	0	133	75 - 125			S
cis-1,3-Dichloropropene	53.46	1.0	50	0	107	79 - 125			
Cyclohexane	70.53	1.0	50	0	141	70 - 130			S
Dibromochloromethane	61.98	1.0	50	0	124	70 - 130			
Dichlorodifluoromethane	52.87	1.0	50	0	106	60 - 140			
Ethylbenzene	63.62	1.0	50	0	127	80 - 120			S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: R258553 **Instrument: VOA4** **Method: SW8260**

MS Sample ID: **HS15070599-02MS** Units: **ug/L** Analysis Date: **24-Jul-2015 17:36**
Client ID: Run ID: **VOA4_258553** SeqNo: **3368649** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	68.05	1.0	50	0	136	75 - 130				S
m,p-Xylene	123.6	2.0	100	0	124	80 - 120				S
Methyl acetate	62.27	1.0	50	0	125	76 - 122				S
Methyl tert-butyl ether	65.68	1.0	50	0	131	70 - 130				S
Methylcyclohexane	67.83	1.0	50	0	136	70 - 126				S
Methylene chloride	61.68	2.0	50	0	123	65 - 133				
o-Xylene	66.84	1.0	50	0	134	80 - 120				S
Styrene	64.31	1.0	50	0	129	78 - 122				S
Tetrachloroethene	64.7	1.0	50	0	129	75 - 130				
Toluene	58.78	1.0	50	0	118	75 - 121				
trans-1,2-Dichloroethene	64.7	1.0	50	0	129	75 - 125				S
trans-1,3-Dichloropropene	55.74	1.0	50	0	111	76 - 125				
Trichloroethene	61.43	1.0	50	0	123	71 - 125				
Trichlorofluoromethane	98.68	1.0	50	0	197	67 - 132				S
Vinyl chloride	62.26	1.0	50	0	125	70 - 135				
Xylenes, Total	190.4	3.0	150	0	127	80 - 124				S
Surr: 1,2-Dichloroethane-d4	*59.32*	*1.0*	*50*	*0*	*119*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*59.08*	*1.0*	*50*	*0*	*118*	*70 - 125*				
Surr: Dibromofluoromethane	*60.27*	*1.0*	*50*	*0*	*121*	*74 - 125*				
Surr: Toluene-d8	*56.58*	*1.0*	*50*	*0*	*113*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: R258553 **Instrument: VOA4** **Method: SW8260**

MSD Sample ID: **HS15070599-02MSD** Units: **ug/L** Analysis Date: **24-Jul-2015 18:03**
Client ID: Run ID: **VOA4_258553** SeqNo: **3368650** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	69.42	1.0	50	0	139	75 - 130	69.41	0.00592	20	S
1,1,2,2-Tetrachloroethane	64.26	1.0	50	0	129	74 - 123	62.22	3.22	20	S
1,1,2-Trichlor-1,2,2-trifluoroethane	73.03	1.0	50	0	146	70 - 130	73.68	0.891	20	S
1,1,2-Trichloroethane	63.42	1.0	50	0	127	80 - 120	62.71	1.13	20	S
1,1-Dichloroethane	63.78	1.0	50	0	128	76 - 120	62.18	2.54	20	S
1,1-Dichloroethene	71.42	1.0	50	0	143	75 - 130	68.34	4.4	20	S
1,2,4-Trichlorobenzene	91.53	1.0	50	0	183	75 - 126	59.93	41.7	20	SR
1,2-Dibromo-3-chloropropane	59.37	1.0	50	0	119	65 - 125	55.7	6.36	20	
1,2-Dibromoethane	61.96	1.0	50	0	124	80 - 121	58.98	4.93	20	S
1,2-Dichlorobenzene	59.53	1.0	50	0	119	80 - 120	59.56	0.0632	20	
1,2-Dichloroethane	60.81	1.0	50	0	122	76 - 120	62.21	2.28	20	S
1,2-Dichloropropane	62.45	1.0	50	0	125	80 - 120	61.79	1.06	20	S
1,3-Dichlorobenzene	61.7	1.0	50	0	123	80 - 120	62.62	1.49	20	S
1,4-Dichlorobenzene	59.15	1.0	50	0	118	80 - 120	61.22	3.44	20	
2-Butanone	125.1	2.0	100	0	125	60 - 140	116.3	7.34	20	
2-Hexanone	142.4	2.0	100	0	142	60 - 131	131	8.35	20	S
4-Methyl-2-pentanone	108.3	2.0	100	0	108	60 - 135	104.3	3.74	20	
Acetone	105.8	2.0	100	0	106	60 - 140	97.82	7.89	20	
Benzene	62.24	1.0	50	0	124	80 - 120	63.01	1.23	20	S
Bromodichloromethane	60.03	1.0	50	0	120	75 - 125	60.88	1.41	20	
Bromoform	60.9	1.0	50	0	122	70 - 130	59.33	2.6	20	
Bromomethane	66.23	1.0	50	0	132	60 - 140	63.69	3.91	20	
Carbon disulfide	131.8	2.0	100	0	132	70 - 130	133.2	1.05	20	S
Carbon tetrachloride	62.4	1.0	50	0	125	75 - 125	63.17	1.23	20	
Chlorobenzene	64	1.0	50	0	128	80 - 120	60.93	4.91	20	S
Chloroethane	60.21	1.0	50	0	120	70 - 130	58.45	2.96	20	
Chloroform	64.09	1.0	50	0	128	70 - 130	61.93	3.44	20	
Chloromethane	77.5	1.0	50	0	155	65 - 130	50.66	41.9	20	SR
cis-1,2-Dichloroethene	63.99	1.0	50	0	128	75 - 125	66.36	3.64	20	S
cis-1,3-Dichloropropene	55.62	1.0	50	0	111	79 - 125	53.46	3.97	20	
Cyclohexane	74.51	1.0	50	0	149	70 - 130	70.53	5.48	20	S
Dibromochloromethane	64.3	1.0	50	0	129	70 - 130	61.98	3.68	20	
Dichlorodifluoromethane	50.63	1.0	50	0	101	60 - 140	52.87	4.34	20	
Ethylbenzene	64.07	1.0	50	0	128	80 - 120	63.62	0.71	20	S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15070916

QC BATCH REPORT

Batch ID: R258553 **Instrument: VOA4** **Method: SW8260**

MSD Sample ID: **HS15070599-02MSD** Units: **ug/L** Analysis Date: **24-Jul-2015 18:03**
Client ID: Run ID: **VOA4_258553** SeqNo: **3368650** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Isopropylbenzene	70.09	1.0	50	0	140	75 - 130	68.05	2.94	20	S
m,p-Xylene	123.9	2.0	100	0	124	80 - 120	123.6	0.242	20	S
Methyl acetate	62.66	1.0	50	0	125	76 - 122	62.27	0.617	20	S
Methyl tert-butyl ether	67.58	1.0	50	0	135	70 - 130	65.68	2.85	20	S
Methylcyclohexane	70.19	1.0	50	0	140	70 - 126	67.83	3.42	20	S
Methylene chloride	63.33	2.0	50	0	127	65 - 133	61.68	2.64	20	
o-Xylene	65.79	1.0	50	0	132	80 - 120	66.84	1.58	20	S
Styrene	64.52	1.0	50	0	129	78 - 122	64.31	0.337	20	S
Tetrachloroethene	63.29	1.0	50	0	127	75 - 130	64.7	2.2	20	
Toluene	56.53	1.0	50	0	113	75 - 121	58.78	3.91	20	
trans-1,2-Dichloroethene	66.36	1.0	50	0	133	75 - 125	64.7	2.53	20	S
trans-1,3-Dichloropropene	60.41	1.0	50	0	121	76 - 125	55.74	8.04	20	
Trichloroethene	63.15	1.0	50	0	126	71 - 125	61.43	2.76	20	S
Trichlorofluoromethane	58.41	1.0	50	0	117	67 - 132	98.68	51.3	20	R
Vinyl chloride	90.92	1.0	50	0	182	70 - 135	62.26	37.4	20	SR
Xylenes, Total	189.7	3.0	150	0	126	80 - 124	190.4	0.394	20	S
Surr: 1,2-Dichloroethane-d4	*58.29*	*1.0*	*50*	*0*	*117*	*71 - 125*	*59.32*	*1.74*	*20*	
Surr: 4-Bromofluorobenzene	*59.1*	*1.0*	*50*	*0*	*118*	*70 - 125*	*59.08*	*0.0441*	*20*	
Surr: Dibromofluoromethane	*60.31*	*1.0*	*50*	*0*	*121*	*74 - 125*	*60.27*	*0.0614*	*20*	
Surr: Toluene-d8	*58.02*	*1.0*	*50*	*0*	*116*	*75 - 125*	*56.58*	*2.51*	*20*	

The following samples were anayzed in this batch: HS15070916-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: **HS15070916**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Jul-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Work Order: HS15070916

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15070916-01	B-4/TMW-4	Login	7/22/2015 5:03:23 PM	RPG	VW-3
HS15070916-01	B-4/TMW-4	Login	7/22/2015 5:03:23 PM	RPG	TPH C1

Sample Receipt Checklist

Client Name: WM_Fort Worth
Work Order: HS15070916

Date/Time Received: **21-Jul-2015 15:50**
Received by: **RPG**

Checklist completed by: *Raegen Giga* eSignature — 22-Jul-2015 Date

Reviewed by: *Bernadette A. Fini* eSignature — 23-Jul-2015 Date

Matrices: **GW**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☑	Not Present ☐
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.6c/0.9c u/c	IR 4	
Cooler(s)/Kit(s):	RED		
Date/Time sample(s) sent to storage:	07/22/2015 17:15		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Environmental

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 125064

HS15070916

W&M Environmental Group, L.L.C

1483.001

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name		A	~~ICP Wipe (Lead Only)~~ RCRA
Work Order		Project Number	1483.001	B	VOC, 8260
Company Name	W&M Environmental Group, L.L.C	Bill To Company	W&M Environmental Group, L.L.C	C	TPH, 1005
Send Report To	Paul Rodusky	Invoice Attn	Accounts Payable	D	
Address	6825 Manhattan Blvd. Suite 125	Address	6825 Manhattan Blvd. Suite 125	E	
				F	
City/State/Zip	Fort Worth, TX 76120	City/State/Zip	Fort Worth, TX 76120	G	
Phone	817-402-3128	Phone	817-402-3128	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-4/TMW-4	7/21/15	935	GW	1	4		x	X								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Ross Zapalac RBZ

Shipment Method:

Required Turnaround Time: (Check Box) TAT 5 days Other:

Results Due Date:

Relinquished by: RBZ	Date: 7-21-15	Time: 12:59	Received by:	
Relinquished by:	Date: 7-21-15	Time: 15:50	Received by (Laboratory): RC	Date: 7-22-15 Time: 08:35
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: [WM Base Pricing]

Cooler ID	Cooler Temp.
RD	0.6° C
	4.4
	e/f 0.5° C

QC Package: (Check One Box Below)

QC Level: ~~TRRP-LRC~~

Other: TRRP

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the re
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Red

CUSTODY SEAL

Date: 7-21-15 Time: 13:50

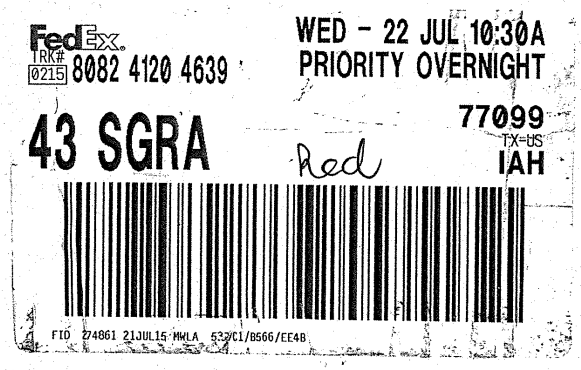
Name: DANIELLE WOMACK

Company: ALS ENVIRONMENTAL

Seal Broken By: SM

Date: 07/22/15

Red 07/22/15



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

August 28, 2015

Ross Zapalac
W&M Environmental Group, L.L.C
6825 Manhattan Blvd.
Suite 125
Fort Worth, TX 76120

Work Order: **HS15080818**

Laboratory Results for: **1483.002**

Dear Ross,

ALS Environmental received 2 sample(s) on Aug 19, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Bernadette A. Fini
Project Manager

Client:	W&M Environmental Group, L.L.C	**TRRP Laboratory Data Package Cover Page**
Project:	1483.002	
WorkOrder:	**HS15080818**	

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:

a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:

a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

ALS Group USA, Corp Date: 28-Aug-15

Client:	W&M Environmental Group, L.L.C
Project:	1483.002
WorkOrder:	**HS15080818**

TRRP Laboratory Data Package Cover Page

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bernadette A. Fini
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 08/28/2015					
Project Name: 1483.002			Laboratory Job Number: HS15080818					
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 96436, 96457, 96457a, R259945					
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]	
R1	OI	**Chain-of-custody (C-O-C)**						
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X					
		Were all departures from standard conditions described in an exception report?	X					
R2	OI	**Sample and quality control (QC) identification**						
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X					
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X					
R3	OI	**Test reports**						
		Were all samples prepared and analyzed within holding times?	X					
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X					
		Were calculations checked by a peer or supervisor?	X					
		Were all analyte identifications checked by a peer or supervisor?	X					
		Were sample detection limits reported for all analytes not detected?	X					
		Were all results for soil and sediment samples reported on a dry weight basis?			X			
		Were % moisture (or solids) reported for all soil and sediment samples?			X			
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X			
		If required for the project, TICs reported?			X			
R4	O	**Surrogate recovery data**						
		Were surrogates added prior to extraction?	X					
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X					
R5	OI	**Test reports/summary forms for blank samples**						
		Were appropriate type(s) of blanks analyzed?	X					
		Were blanks analyzed at the appropriate frequency?	X					
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X					
		Were blank concentrations < MQL?	X					
R6	OI	**Laboratory control samples (LCS):**						
		Were all COCs included in the LCS?		X			1	
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X					
		Were LCSs analyzed at the required frequency?	X					
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X					
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X					
		Was the LCSD RPD within QC limits?	X					
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**						
		Were the project/method specified analytes included in the MS and MSD?	X					
		Were MS/MSD analyzed at the appropriate frequency?		X			2	
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X					
		Were MS/MSD RPDs within laboratory QC limits?	X					
R8	OI	**Analytical duplicate data**						
		Were appropriate analytical duplicates analyzed for each matrix?			X			
		Were analytical duplicates analyzed at the appropriate frequency?			X			
		Were RPDs or relative standard deviations within the laboratory QC limits?			X			
R9	OI	**Method quantitation limits (MQLs):**						
		Are the MQLs for each method analyte included in the laboratory data package?	X					
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X					
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X					
R10	OI	**Other problems/anomalies**						
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X					
		Were all necessary corrective actions performed for the reported data?	X					
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X					
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				3	

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 08/28/2015				
Project Name: 1483.002			Laboratory Job Number: HS15080818				
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 96436, 96457, 96457a, R259945				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?		X			4
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Laboratory Group		LRC Date: 08/28/2015
Project Name: 1483.002		Laboratory Job Number: HS15080818
Reviewer Name: Bernadette Fini		Prep Batch Number(s): 96436, 96457, 96457a, R259945
ER#[5]	**Description**	
1	Batch 96457a, Organochlorine Pesticides Method SW8081, The multi-response compounds; Toxaphene and Chlordane were not included in the spiking solution for the LCS/LCSD	
2	Batch 96457, Pesticides Method SW8081, Insufficient sample to perform MS/MSD. LCS/LCSD provided as batch quality control. Batch 96457a, Organochlorine Pesticides Method SW8081, Insufficient sample to perform MS/MSD. LCS/LCSD provided as batch quality control	
3	With the exception of cyclohexane, ALS is NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package. Because TCEQ does not offer accreditation for this compound, the results are flagged with n.	
4	Pesticides by Method SW8081B results are P qualified for alpha-Chlordane in Sample B-4/TMW-4. This indicates possible coelution or matrix interference on the confirming column.	

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: W&M Environmental Group, L.L.C
Project: 1483.002
Work Order: HS15080818

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15080818-01	B-1/TMW-1	Groundwater		18-Aug-2015 15:29	19-Aug-2015 11:30	☐
HS15080818-02	B-4/TMW-4	Groundwater		18-Aug-2015 16:46	19-Aug-2015 11:30	☐

Client: W&M Environmental Group, L.L.C
Project: 1483.002
Sample ID: B-1/TMW-1
Collection Date: 18-Aug-2015 15:29

ANALYTICAL REPORT
WorkOrder:HS15080818
Lab ID:HS15080818-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
1,1,1-Trichloroethane	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
1,1,2,2-Tetrachloroethane	U		0.00050	0.0010	mg/L	1	21-Aug-2015 16:42
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.0010	0.0010	mg/L	1	21-Aug-2015 16:42
1,1,2-Trichloroethane	U		0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
1,1-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
1,1-Dichloroethene	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
1,2,4-Trichlorobenzene	U		0.00050	0.0010	mg/L	1	21-Aug-2015 16:42
1,2-Dibromo-3-chloropropane	U		0.0010	0.0010	mg/L	1	21-Aug-2015 16:42
1,2-Dibromoethane	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
1,2-Dichlorobenzene	U		0.00050	0.0010	mg/L	1	21-Aug-2015 16:42
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
1,2-Dichloropropane	U		0.00050	0.0010	mg/L	1	21-Aug-2015 16:42
1,3-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	21-Aug-2015 16:42
1,4-Dichlorobenzene	U		0.00040	0.0010	mg/L	1	21-Aug-2015 16:42
2-Butanone	U		0.00050	0.0020	mg/L	1	21-Aug-2015 16:42
2-Hexanone	U		0.0010	0.0020	mg/L	1	21-Aug-2015 16:42
4-Methyl-2-pentanone	U		0.00070	0.0020	mg/L	1	21-Aug-2015 16:42
Acetone	**0.0022**		**0.0020**	**0.0020**	**mg/L**	1	21-Aug-2015 16:42
Benzene	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
Bromodichloromethane	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
Bromoform	U		0.00040	0.0010	mg/L	1	21-Aug-2015 16:42
Bromomethane	U		0.00040	0.0010	mg/L	1	21-Aug-2015 16:42
Carbon disulfide	**0.00086**	J	**0.00060**	**0.0020**	**mg/L**	1	21-Aug-2015 16:42
Carbon tetrachloride	U		0.00050	0.0010	mg/L	1	21-Aug-2015 16:42
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Chloroethane	U		0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Chloroform	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
Chloromethane	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
cis-1,2-Dichloroethene	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
cis-1,3-Dichloropropene	U		0.00010	0.0010	mg/L	1	21-Aug-2015 16:42
Cyclohexane	U	n	0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Dibromochloromethane	U		0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Dichlorodifluoromethane	U		0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Isopropylbenzene	U		0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
m,p-Xylene	U		0.00050	0.0020	mg/L	1	21-Aug-2015 16:42
Methyl acetate	U		0.0010	0.0010	mg/L	1	21-Aug-2015 16:42
Methyl tert-butyl ether	U		0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
Methylcyclohexane	U		0.00030	0.0010	mg/L	1	21-Aug-2015 16:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
Sample ID: B-1/TMW-1
Collection Date: 18-Aug-2015 15:29

ANALYTICAL REPORT
WorkOrder:HS15080818
Lab ID:HS15080818-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Methylene chloride		U	0.0010	0.0020	mg/L	1	21-Aug-2015 16:42
o-Xylene		U	0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Styrene		U	0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Tetrachloroethene		U	0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Toluene		U	0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
trans-1,2-Dichloroethene		U	0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
trans-1,3-Dichloropropene		U	0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
Trichloroethene		U	0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
Trichlorofluoromethane		U	0.00030	0.0010	mg/L	1	21-Aug-2015 16:42
Vinyl chloride		U	0.00020	0.0010	mg/L	1	21-Aug-2015 16:42
Xylenes, Total		U	0.00050	0.0030	mg/L	1	21-Aug-2015 16:42
Surr: 1,2-Dichloroethane-d4	*99.5*			*71-125*	*%REC*	*1*	*21-Aug-2015 16:42*
Surr: 4-Bromofluorobenzene	*93.2*			*70-125*	*%REC*	*1*	*21-Aug-2015 16:42*
Surr: Dibromofluoromethane	*99.9*			*74-125*	*%REC*	*1*	*21-Aug-2015 16:42*
Surr: Toluene-d8	*97.6*			*75-125*	*%REC*	*1*	*21-Aug-2015 16:42*
LOW-LEVEL TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 21-Aug-2015		Analyst: JKP
nC6 to nC12		U	0.24	0.59	mg/L	1	25-Aug-2015 01:06
>nC12 to nC28		U	0.24	0.59	mg/L	1	25-Aug-2015 01:06
>nC28 to nC35		U	0.24	0.59	mg/L	1	25-Aug-2015 01:06
Total Petroleum Hydrocarbon		U	0.24	0.59	mg/L	1	25-Aug-2015 01:06
Surr: 2-Fluorobiphenyl	*97.0*			*70-130*	*%REC*	*1*	*25-Aug-2015 01:06*
Surr: Trifluoromethyl benzene	*94.4*			*70-130*	*%REC*	*1*	*25-Aug-2015 01:06*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
Sample ID: B-4/TMW-4
Collection Date: 18-Aug-2015 16:46

ANALYTICAL REPORT
WorkOrder:HS15080818
Lab ID:HS15080818-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ORGANOCHLORINE PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3510C/3665A / 24-Aug-2015		Analyst: HV
4,4´-DDD	U		0.0000080	0.00010	mg/L	1	25-Aug-2015 03:26
4,4´-DDE	U		0.0000040	0.00010	mg/L	1	25-Aug-2015 03:26
4,4´-DDT	U		0.0000070	0.00010	mg/L	1	25-Aug-2015 03:26
Aldrin	U		0.000010	0.000050	mg/L	1	25-Aug-2015 03:26
alpha-BHC	U		0.000010	0.000050	mg/L	1	25-Aug-2015 03:26
beta-BHC	U		0.000010	0.000050	mg/L	1	25-Aug-2015 03:26
Chlordane	U		0.00010	0.00050	mg/L	1	25-Aug-2015 03:26
delta-BHC	U		0.000010	0.000050	mg/L	1	25-Aug-2015 03:26
Dieldrin	**0.000049**	J	**0.000010**	**0.00010**	**mg/L**	1	25-Aug-2015 03:26
Endosulfan I	**0.000019**	J	**0.000010**	**0.000050**	**mg/L**	1	25-Aug-2015 03:26
Endosulfan II	U		0.000020	0.00010	mg/L	1	25-Aug-2015 03:26
Endosulfan sulfate	U		0.000030	0.00010	mg/L	1	25-Aug-2015 03:26
Endrin	U		0.000030	0.00010	mg/L	1	25-Aug-2015 03:26
Endrin aldehyde	U		0.000030	0.00010	mg/L	1	25-Aug-2015 03:26
Endrin ketone	U		0.000030	0.00010	mg/L	1	25-Aug-2015 03:26
gamma-BHC	U		0.000010	0.000050	mg/L	1	25-Aug-2015 03:26
Heptachlor	U		0.000010	0.000050	mg/L	1	25-Aug-2015 03:26
Heptachlor epoxide	U		0.000010	0.000050	mg/L	1	25-Aug-2015 03:26
Methoxychlor	U		0.00015	0.00050	mg/L	1	25-Aug-2015 03:26
Toxaphene	U		0.00019	0.00050	mg/L	1	25-Aug-2015 03:26
Surr: Decachlorobiphenyl	*94.1*			*54.9-145*	*%REC*	*1*	*25-Aug-2015 03:26*
Surr: Tetrachloro-m-xylene	*90.9*			*51.5-142*	*%REC*	*1*	*25-Aug-2015 03:26*
MISCELLANEOUS PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3510C/3665A / 24-Aug-2015		Analyst: HV
alpha-Chlordane	U	P	0.000020	0.000050	mg/L	1	25-Aug-2015 03:26
gamma-Chlordane	**0.000031**	J	**0.000020**	**0.000050**	**mg/L**	1	25-Aug-2015 03:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT/VOLUME LOG

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

Batch ID: 96436 **Method:** LOW-LEVEL TEXAS TPH BY TX1005 **Prep:** TX 1005_W PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15080818-01	1	25.3	3	0.1186

Batch ID: 96457 **Method:** MISCELLANEOUS PESTICIDES BY SW8081B **Prep:** 3510_P

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15080818-02	1	1000	10	0.01

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 96436	**Test Name :** LOW-LEVEL TEXAS TPH BY TX1005			**Matrix:** Groundwater		
HS15080818-01	B-1/TMW-1	18 Aug 2015 15:29		21 Aug 2015 16:22	25 Aug 2015 01:06	1
Batch ID 96457	**Test Name :** MISCELLANEOUS PESTICIDES BY SW8081B			**Matrix:** Groundwater		
HS15080818-02	B-4/TMW-4	18 Aug 2015 16:46		24 Aug 2015 08:08	25 Aug 2015 03:26	1
Batch ID 96457a	**Test Name :** ORGANOCHLORINE PESTICIDES BY SW8081B			**Matrix:** Groundwater		
HS15080818-02	B-4/TMW-4	18 Aug 2015 16:46		24 Aug 2015 08:08	25 Aug 2015 03:26	1
Batch ID R259945	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Groundwater		
HS15080818-01	B-1/TMW-1	18 Aug 2015 15:29			21 Aug 2015 16:42	1

WorkOrder: HS15080818
InstrumentID: ECD_11
Test Code: 8081_W
Test Number: SW8081
Test Name: Organochlorine Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	4,4´-DDD	72-54-8	0.000050	0.000036	0.0000080	0.00010
A	4,4´-DDE	72-55-9	0.000050	0.000031	0.0000040	0.00010
A	4,4´-DDT	50-29-3	0.000050	0.000045	0.0000070	0.00010
A	Aldrin	309-00-2	0.000025	0.000013	0.000010	0.000050
A	alpha-BHC	319-84-6	0.000025	0.000012	0.000010	0.000050
A	beta-BHC	319-85-7	0.000025	0.000017	0.000010	0.000050
A	Chlordane	57-74-9	0	0	0.00010	0.00050
A	delta-BHC	319-86-8	0.000025	0.000018	0.000010	0.000050
A	Dieldrin	60-57-1	0.000050	0.000034	0.000010	0.00010
A	Endosulfan I	959-98-8	0.000025	0.000016	0.000010	0.000050
A	Endosulfan II	33213-65-9	0.000050	0.000034	0.000020	0.00010
A	Endosulfan sulfate	1031-07-8	0.000050	0.000038	0.000030	0.00010
A	Endrin	72-20-8	0.000050	0.000042	0.000030	0.00010
A	Endrin aldehyde	7421-93-4	0.000050	0.000034	0.000030	0.00010
A	Endrin ketone	53494-70-5	0.000050	0.000047	0.000030	0.00010
A	gamma-BHC	58-89-9	0.000025	0.000015	0.000010	0.000050
A	Heptachlor	76-44-8	0.000025	0.000019	0.000010	0.000050
A	Heptachlor epoxide	1024-57-3	0.000025	0.000016	0.000010	0.000050
A	Methoxychlor	72-43-5	0.00050	0.00023	0.00015	0.00050
A	Toxaphene	8001-35-2	0.00025	0.00020	0.00019	0.00050
S	Decachlorobiphenyl	2051-24-3	0	0	0	0
S	Tetrachloro-m-xylene	877-09-8	0	0	0	0

WorkOrder: HS15080818
InstrumentID: ECD_11
Test Code: 8081-MISC_W
Test Number: SW8081
Test Name: Miscellaneous Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	alpha-Chlordane	5103-71-9	0.000025	0.000016	0.000020	0.000050
A	gamma-Chlordane	5566-34-7	0.000025	0.000016	0.000020	0.000050

WorkOrder: HS15080818
InstrumentID: FID-12
Test Code: TX1005_W_Low
Test Number: TX1005
Test Name: Low-level Texas TPH by TX1005

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	nC6 to nC12	TPHGRO	0.50	0.71	0.20	0.50
A	>nC12 to nC28	TPHDRO	0.50	0.48	0.20	0.50
A	>nC28 to nC35	10W40MOTOROIL	0.50	0.48	0.20	0.50
A	Total Petroleum Hydrocarbon	TPH	1.0	1.2	0.20	0.50
S	2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Trifluoromethyl benzene	98-08-8	0	0	0	0

WorkOrder: HS15080818
InstrumentID: VOA4
Test Code: 8260_LL_W
Test Number: SW8260
Test Name: Low Level Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,1,1-Trichloroethane	71-55-6	0.00050	0.00063	0.00020	0.0010
A	1,1,2,2-Tetrachloroethane	79-34-5	0.00050	0.00074	0.00050	0.0010
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.00050	0.00057	0.0010	0.0010
A	1,1,2-Trichloroethane	79-00-5	0.00050	0.00057	0.00030	0.0010
A	1,1-Dichloroethane	75-34-3	0.00050	0.00065	0.00020	0.0010
A	1,1-Dichloroethene	75-35-4	0.00050	0.00085	0.00020	0.0010
A	1,2,4-Trichlorobenzene	120-82-1	0.00050	0.00042	0.00050	0.0010
A	1,2-Dibromo-3-chloropropane	96-12-8	0.00050	0.00051	0.0010	0.0010
A	1,2-Dibromoethane	106-93-4	0.00050	0.00055	0.00020	0.0010
A	1,2-Dichlorobenzene	95-50-1	0.00050	0.00067	0.00050	0.0010
A	1,2-Dichloroethane	107-06-2	0.00050	0.00076	0.00020	0.0010
A	1,2-Dichloropropane	78-87-5	0.00050	0.00024	0.00050	0.0010
A	1,3-Dichlorobenzene	541-73-1	0.00050	0.00073	0.00040	0.0010
A	1,4-Dichlorobenzene	106-46-7	0.00050	0.00083	0.00040	0.0010
A	2-Butanone	78-93-3	0.0010	0.0012	0.00050	0.0020
A	2-Hexanone	591-78-6	0.0010	0.00083	0.0010	0.0020
A	4-Methyl-2-pentanone	108-10-1	0.0010	0.00085	0.00070	0.0020
A	Acetone	67-64-1	0.0010	0.0016	0.0020	0.0020
A	Benzene	71-43-2	0.00050	0.00062	0.00020	0.0010
A	Bromodichloromethane	75-27-4	0.00050	0.00058	0.00020	0.0010
A	Bromoform	75-25-2	0.00050	0.00062	0.00040	0.0010
A	Bromomethane	74-83-9	0.00050	0.0026	0.00040	0.0010
A	Carbon disulfide	75-15-0	0.0010	0.0014	0.00060	0.0020
A	Carbon tetrachloride	56-23-5	0.00050	0.00042	0.00050	0.0010
A	Chlorobenzene	108-90-7	0.00050	0.00071	0.00030	0.0010
A	Chloroethane	75-00-3	0.00050	0.00077	0.00030	0.0010
A	Chloroform	67-66-3	0.00050	0.00074	0.00020	0.0010
A	Chloromethane	74-87-3	0.00050	0.00072	0.00020	0.0010
A	cis-1,2-Dichloroethene	156-59-2	0.00050	0.00066	0.00020	0.0010
A	cis-1,3-Dichloropropene	10061-01-5	0.00050	0.00061	0.00010	0.0010
A	Cyclohexane	110-82-7	0.00050	0.0012	0.00030	0.0010
A	Dibromochloromethane	124-48-1	0.00050	0.00056	0.00030	0.0010
A	Dichlorodifluoromethane	75-71-8	0.00050	0.00037	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.00050	0.00068	0.00030	0.0010
A	Isopropylbenzene	98-82-8	0.00050	0.00059	0.00030	0.0010
A	m,p-Xylene	179601-23-1	0.0010	0.0012	0.00050	0.0020
A	Methyl acetate	79-20-9	0.00050	0.00085	0.0010	0.0010
A	Methyl tert-butyl ether	1634-04-4	0.00050	0.00070	0.00020	0.0010
A	Methylcyclohexane	108-87-2	0.00050	0.00044	0.00030	0.0010
A	Methylene chloride	75-09-2	0.00050	0.000080	0.0010	0.0020
A	o-Xylene	95-47-6	0.00050	0.00064	0.00030	0.0010

WorkOrder: HS15080818
InstrumentID: VOA4
Test Code: 8260_LL_W
Test Number: SW8260
Test Name: Low Level Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Styrene	100-42-5	0.00050	0.00058	0.00030	0.0010
A	Tetrachloroethene	127-18-4	0.00050	0.00059	0.00030	0.0010
A	Toluene	108-88-3	0.00050	0.00066	0.00020	0.0010
A	trans-1,2-Dichloroethene	156-60-5	0.00050	0.00073	0.00020	0.0010
A	trans-1,3-Dichloropropene	10061-02-6	0.00050	0.00051	0.00020	0.0010
A	Trichloroethene	79-01-6	0.00050	0.00059	0.00020	0.0010
A	Trichlorofluoromethane	75-69-4	0.00050	0.00052	0.00030	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00055	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0015	0.0018	0.00050	0.0030
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: 96457 **Instrument: ECD_11** **Method: SW8081**

MBLK Sample ID: **MBLK-96457** Units: **ug/L** Analysis Date: **25-Aug-2015 02:46**
Client ID: Run ID: **ECD_11_260314** SeqNo: **3404745** PrepDate: **24-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	U	0.050								
gamma-Chlordane	U	0.050								

LCS Sample ID: **LCS-96457** Units: **ug/L** Analysis Date: **25-Aug-2015 03:00**
Client ID: Run ID: **ECD_11_260314** SeqNo: **3404746** PrepDate: **24-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	0.2453	0.050	0.25	0	98.1	55 - 141				
gamma-Chlordane	0.2434	0.050	0.25	0	97.4	55 - 137				

LCSD Sample ID: **LCSD-96457** Units: **ug/L** Analysis Date: **25-Aug-2015 03:13**
Client ID: Run ID: **ECD_11_260314** SeqNo: **3404747** PrepDate: **24-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	0.2511	0.050	0.25	0	100	55 - 141	0.2453	2.34	20	
gamma-Chlordane	0.2482	0.050	0.25	0	99.3	55 - 137	0.2434	1.95	20	

The following samples were anayzed in this batch: HS15080818-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: 96457a **Instrument: ECD_11** **Method: SW8081**

MBLK Sample ID: **MBLK-96457** Units: **ug/L** Analysis Date: **25-Aug-2015 02:46**
Client ID: Run ID: **ECD_11_260314** SeqNo: **3404739** PrepDate: **24-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	0.10								
4,4´-DDE	U	0.10								
4,4´-DDT	U	0.10								
Aldrin	U	0.050								
alpha-BHC	U	0.050								
beta-BHC	U	0.050								
Chlordane	U	0.50								
delta-BHC	U	0.050								
Dieldrin	U	0.10								
Endosulfan I	U	0.050								
Endosulfan II	U	0.10								
Endosulfan sulfate	U	0.10								
Endrin	U	0.10								
Endrin aldehyde	U	0.10								
Endrin ketone	U	0.10								
gamma-BHC	U	0.050								
Heptachlor	U	0.050								
Heptachlor epoxide	U	0.050								
Methoxychlor	U	0.50								
Toxaphene	U	0.50								
Surr: Decachlorobiphenyl	*0.1973*	*0*	*0.2*	*0*	*98.7*	*54.9 - 145*				
Surr: Tetrachloro-m-xylene	*0.2118*	*0*	*0.2*	*0*	*106*	*51.5 - 142*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: 96457a **Instrument: ECD_11** **Method: SW8081**

LCS Sample ID: **LCS-96457** Units: **ug/L** Analysis Date: **25-Aug-2015 03:00**
Client ID: Run ID: **ECD_11_260314** SeqNo: **3404740** PrepDate: **24-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.4982	0.10	0.5	0	99.6	53 - 144				
4,4´-DDE	0.5081	0.10	0.5	0	102	55 - 144				
4,4´-DDT	0.5136	0.10	0.5	0	103	53 - 149				
Aldrin	0.2423	0.050	0.25	0	96.9	47 - 141				
alpha-BHC	0.2344	0.050	0.25	0	93.8	51 - 141				
beta-BHC	0.2387	0.050	0.25	0	95.5	58 - 144				
delta-BHC	0.1587	0.050	0.25	0	63.5	48 - 146				
Dieldrin	0.5003	0.10	0.5	0	100	56 - 144				
Endosulfan I	0.2362	0.050	0.25	0	94.5	55 - 141				
Endosulfan II	0.53	0.10	0.5	0	106	57 - 144				
Endosulfan sulfate	0.4691	0.10	0.5	0	93.8	58 - 145				
Endrin	0.5193	0.10	0.5	0	104	60 - 163				
Endrin aldehyde	0.4872	0.10	0.5	0	97.4	59 - 158				
Endrin ketone	0.4926	0.10	0.5	0	98.5	59 - 154				
gamma-BHC	0.2413	0.050	0.25	0	96.5	53 - 142				
Heptachlor	0.2995	0.050	0.25	0	120	51 - 144				
Heptachlor epoxide	0.2471	0.050	0.25	0	98.8	55 - 142				
Methoxychlor	2.595	0.50	2.5	0	104	59 - 150				
Surr: Decachlorobiphenyl	*0.199*	*0*	*0.2*	*0*	*99.5*	*54.9 - 145*				
Surr: Tetrachloro-m-xylene	*0.2093*	*0*	*0.2*	*0*	*105*	*51.5 - 142*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: 96457a **Instrument: ECD_11** **Method: SW8081**

LCSD Sample ID: **LCSD-96457** Units: **ug/L** Analysis Date: **25-Aug-2015 03:13**
Client ID: Run ID: **ECD_11_260314** SeqNo: **3404741** PrepDate: **24-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.5117	0.10	0.5	0	102	53 - 144	0.4982	2.67	20	
4,4´-DDE	0.5109	0.10	0.5	0	102	55 - 144	0.5081	0.551	20	
4,4´-DDT	0.5234	0.10	0.5	0	105	53 - 149	0.5136	1.9	20	
Aldrin	0.248	0.050	0.25	0	99.2	47 - 141	0.2423	2.33	20	
alpha-BHC	0.2424	0.050	0.25	0	97.0	51 - 141	0.2344	3.36	20	
beta-BHC	0.2463	0.050	0.25	0	98.5	58 - 144	0.2387	3.12	20	
delta-BHC	0.1614	0.050	0.25	0	64.6	48 - 146	0.1587	1.72	20	
Dieldrin	0.5106	0.10	0.5	0	102	56 - 144	0.5003	2.03	20	
Endosulfan I	0.2544	0.050	0.25	0	102	55 - 141	0.2362	7.42	20	
Endosulfan II	0.5217	0.10	0.5	0	104	57 - 144	0.53	1.56	20	
Endosulfan sulfate	0.4726	0.10	0.5	0	94.5	58 - 145	0.4691	0.745	20	
Endrin	0.5279	0.10	0.5	0	106	60 - 163	0.5193	1.63	20	
Endrin aldehyde	0.4988	0.10	0.5	0	99.8	59 - 158	0.4872	2.35	20	
Endrin ketone	0.5062	0.10	0.5	0	101	59 - 154	0.4926	2.74	20	
gamma-BHC	0.2488	0.050	0.25	0	99.5	53 - 142	0.2413	3.03	20	
Heptachlor	0.3054	0.050	0.25	0	122	51 - 144	0.2995	1.96	20	
Heptachlor epoxide	0.2528	0.050	0.25	0	101	55 - 142	0.2471	2.28	20	
Methoxychlor	2.616	0.50	2.5	0	105	59 - 150	2.595	0.806	20	
Surr: Decachlorobiphenyl	*0.2072*	*0*	*0.2*	*0*	*104*	*54.9 - 145*	*0.199*	*4.05*	*20*	
Surr: Tetrachloro-m-xylene	*0.2124*	*0*	*0.2*	*0*	*106*	*51.5 - 142*	*0.2093*	*1.46*	*20*	

The following samples were anayzed in this batch: HS15080818-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: 96436 **Instrument: FID-12** **Method: TX1005**

MBLK Sample ID: **MBLK-96436** Units: **mg/L** Analysis Date: **24-Aug-2015 12:48**
Client ID: Run ID: **FID-12_260074** SeqNo: **3399681** PrepDate: **21-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	0.50								
>nC12 to nC28	U	0.50								
>nC28 to nC35	U	0.50								
Total Petroleum Hydrocarbon	U	0.50								
Surr: 2-Fluorobiphenyl	*2.057*	*0*	*2.5*	*0*	*82.3*	*70 - 130*				
Surr: Trifluoromethyl benzene	*2.009*	*0*	*2.5*	*0*	*80.4*	*70 - 130*				

LCS Sample ID: **LCS-96436** Units: **mg/L** Analysis Date: **24-Aug-2015 13:22**
Client ID: Run ID: **FID-12_260074** SeqNo: **3399682** PrepDate: **21-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	21.39	0.50	25	0	85.5	75 - 125				
>nC12 to nC28	21.63	0.50	25	0	86.5	75 - 125				
Surr: 2-Fluorobiphenyl	*2.857*	*0*	*2.5*	*0*	*114*	*70 - 130*				
Surr: Trifluoromethyl benzene	*2.183*	*0*	*2.5*	*0*	*87.3*	*70 - 130*				

LCSD Sample ID: **LCSD-96436** Units: **mg/L** Analysis Date: **24-Aug-2015 13:55**
Client ID: Run ID: **FID-12_260074** SeqNo: **3399683** PrepDate: **21-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	23.21	0.50	25	0	92.9	75 - 125	21.39	8.2	20	
>nC12 to nC28	23.96	0.50	25	0	95.8	75 - 125	21.63	10.2	20	
Surr: 2-Fluorobiphenyl	*3.125*	*0*	*2.5*	*0*	*125*	*70 - 130*	*2.857*	*8.97*	*20*	
Surr: Trifluoromethyl benzene	*2.305*	*0*	*2.5*	*0*	*92.2*	*70 - 130*	*2.183*	*5.45*	*20*	

MS Sample ID: **HS15080843-02MS** Units: **mg/L** Analysis Date: **24-Aug-2015 15:03**
Client ID: Run ID: **FID-12_260074** SeqNo: **3399685** PrepDate: **21-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	21.97	0.50	25	0	87.9	75 - 125				
>nC12 to nC28	21.88	0.50	25	0	87.5	75 - 125				
Surr: 2-Fluorobiphenyl	*3.018*	*0*	*2.5*	*0*	*121*	*70 - 130*				
Surr: Trifluoromethyl benzene	*2.241*	*0*	*2.5*	*0*	*89.6*	*70 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: 96436 **Instrument: FID-12** **Method: TX1005**

MSD Sample ID: **HS15080843-02MSD** Units: **mg/L** Analysis Date: **24-Aug-2015 15:37**
Client ID: Run ID: **FID-12_260074** SeqNo: **3399686** PrepDate: **21-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	19.84	0.50	25	0	79.4	75 - 125	21.97	10.2	20	
>nC12 to nC28	19.77	0.50	25	0	79.1	75 - 125	21.88	10.1	20	
Surr: 2-Fluorobiphenyl	*3.103*	*0*	*2.5*	*0*	*124*	*70 - 130*	*3.018*	*2.78*	*20*	
Surr: Trifluoromethyl benzene	*2.386*	*0*	*2.5*	*0*	*95.5*	*70 - 130*	*2.241*	*6.28*	*20*	

The following samples were anayzed in this batch: HS15080818-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: R259945 **Instrument: VOA4** **Method: SW8260**

MBLK Sample ID: **VBLKW-150821** Units: **ug/L** Analysis Date: **21-Aug-2015 11:54**
Client ID: Run ID: **VOA4_259945** SeqNo: **3397031** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	2.0								
2-Hexanone	U	2.0								
4-Methyl-2-pentanone	U	2.0								
Acetone	U	2.0								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: R259945 **Instrument: VOA4** **Method: SW8260**

MBLK Sample ID: **VBLKW-150821** Units: **ug/L** Analysis Date: **21-Aug-2015 11:54**
Client ID: Run ID: **VOA4_259945** SeqNo: **3397031** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	1.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	2.0								
o-Xylene	U	1.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								
trans-1,2-Dichloroethene	U	1.0								
trans-1,3-Dichloropropene	U	1.0								
Trichloroethene	U	1.0								
Trichlorofluoromethane	U	1.0								
Vinyl chloride	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	*48.97*	*1.0*	*50*	*0*	*97.9*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*46.66*	*1.0*	*50*	*0*	*93.3*	*70 - 125*				
Surr: Dibromofluoromethane	*48.78*	*1.0*	*50*	*0*	*97.6*	*74 - 125*				
Surr: Toluene-d8	*49.7*	*1.0*	*50*	*0*	*99.4*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: R259945 **Instrument: VOA4** **Method: SW8260**

LCS Sample ID: **VLCSW-140821** Units: **ug/L** Analysis Date: **21-Aug-2015 10:39**
Client ID: Run ID: **VOA4_259945** SeqNo: **3397030** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	56.73	1.0	50	0	113	75 - 130				
1,1,2,2-Tetrachloroethane	42.65	1.0	50	0	85.3	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	53.7	1.0	50	0	107	70 - 130				
1,1,2-Trichloroethane	47.15	1.0	50	0	94.3	80 - 120				
1,1-Dichloroethane	51.79	1.0	50	0	104	76 - 120				
1,1-Dichloroethene	52.02	1.0	50	0	104	75 - 130				
1,2,4-Trichlorobenzene	49.57	1.0	50	0	99.1	75 - 126				
1,2-Dibromo-3-chloropropane	46.09	1.0	50	0	92.2	65 - 125				
1,2-Dibromoethane	49.67	1.0	50	0	99.3	80 - 121				
1,2-Dichlorobenzene	47.5	1.0	50	0	95.0	80 - 120				
1,2-Dichloroethane	50.36	1.0	50	0	101	76 - 120				
1,2-Dichloropropane	55.49	1.0	50	0	111	80 - 120				
1,3-Dichlorobenzene	48.69	1.0	50	0	97.4	80 - 120				
1,4-Dichlorobenzene	45.8	1.0	50	0	91.6	80 - 120				
2-Butanone	91.9	2.0	100	0	91.9	60 - 140				
2-Hexanone	90.62	2.0	100	0	90.6	60 - 131				
4-Methyl-2-pentanone	95.33	2.0	100	0	95.3	60 - 135				
Acetone	89.48	2.0	100	0	89.5	60 - 140				
Benzene	50.54	1.0	50	0	101	80 - 120				
Bromodichloromethane	49.85	1.0	50	0	99.7	75 - 125				
Bromoform	49.47	1.0	50	0	98.9	70 - 130				
Bromomethane	50.37	1.0	50	0	101	60 - 140				
Carbon disulfide	103.9	2.0	100	0	104	70 - 130				
Carbon tetrachloride	60.44	1.0	50	0	121	75 - 125				
Chlorobenzene	48.76	1.0	50	0	97.5	80 - 120				
Chloroethane	51.3	1.0	50	0	103	70 - 130				
Chloroform	50.25	1.0	50	0	101	70 - 130				
Chloromethane	50.52	1.0	50	0	101	65 - 130				
cis-1,2-Dichloroethene	51.61	1.0	50	0	103	75 - 125				
cis-1,3-Dichloropropene	56.03	1.0	50	0	112	79 - 125				
Cyclohexane	54.97	1.0	50	0	110	70 - 130				
Dibromochloromethane	50.71	1.0	50	0	101	70 - 130				
Dichlorodifluoromethane	52.3	1.0	50	0	105	60 - 140				
Ethylbenzene	50.83	1.0	50	0	102	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: R259945 **Instrument: VOA4** **Method: SW8260**

LCS Sample ID: **VLCSW-140821** Units: **ug/L** Analysis Date: **21-Aug-2015 10:39**
Client ID: Run ID: **VOA4_259945** SeqNo: **3397030** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	54.49	1.0	50	0	109	75 - 130				
m,p-Xylene	105.5	2.0	100	0	106	80 - 120				
Methyl acetate	48.17	1.0	50	0	96.3	76 - 122				
Methyl tert-butyl ether	48.26	1.0	50	0	96.5	70 - 130				
Methylcyclohexane	52.52	1.0	50	0	105	70 - 126				
Methylene chloride	48.34	2.0	50	0	96.7	65 - 133				
o-Xylene	52.07	1.0	50	0	104	80 - 120				
Styrene	53.44	1.0	50	0	107	78 - 122				
Tetrachloroethene	53.11	1.0	50	0	106	75 - 130				
Toluene	50.74	1.0	50	0	101	75 - 121				
trans-1,2-Dichloroethene	51.85	1.0	50	0	104	75 - 125				
trans-1,3-Dichloropropene	47.7	1.0	50	0	95.4	76 - 125				
Trichloroethene	52.1	1.0	50	0	104	71 - 125				
Trichlorofluoromethane	58.9	1.0	50	0	118	67 - 132				
Vinyl chloride	54.56	1.0	50	0	109	70 - 135				
Xylenes, Total	157.6	3.0	150	0	105	79 - 124				
Surr: 1,2-Dichloroethane-d4	*46.28*	*1.0*	*50*	*0*	*92.6*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*48.73*	*1.0*	*50*	*0*	*97.5*	*70 - 125*				
Surr: Dibromofluoromethane	*48.1*	*1.0*	*50*	*0*	*96.2*	*74 - 125*				
Surr: Toluene-d8	*49.44*	*1.0*	*50*	*0*	*98.9*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: R259945 **Instrument: VOA4** **Method: SW8260**

MS Sample ID: **HS15080672-06MS** Units: **ug/L** Analysis Date: **21-Aug-2015 14:03**
Client ID: Run ID: **VOA4_259945** SeqNo: **3397268** PrepDate: DF: **500**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	29510	500	25000	0	118	75 - 130				
1,1,2,2-Tetrachloroethane	21770	500	25000	0	87.1	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	27970	500	25000	0	112	70 - 130				
1,1,2-Trichloroethane	24520	500	25000	0	98.1	80 - 120				
1,1-Dichloroethane	27030	500	25000	0	108	76 - 120				
1,1-Dichloroethene	27490	500	25000	0	110	75 - 130				
1,2,4-Trichlorobenzene	22920	500	25000	0	91.7	75 - 126				
1,2-Dibromo-3-chloropropane	21710	500	25000	0	86.8	65 - 125				
1,2-Dibromoethane	25910	500	25000	0	104	80 - 121				
1,2-Dichlorobenzene	22740	500	25000	0	91.0	80 - 120				
1,2-Dichloroethane	26260	500	25000	0	105	76 - 120				
1,2-Dichloropropane	27990	500	25000	0	112	80 - 120				
1,3-Dichlorobenzene	23900	500	25000	0	95.6	80 - 120				
1,4-Dichlorobenzene	23000	500	25000	0	92.0	80 - 120				
2-Butanone	48150	1000	50000	0	96.3	60 - 140				
2-Hexanone	44780	1000	50000	0	89.6	60 - 131				
4-Methyl-2-pentanone	50520	1000	50000	0	101	60 - 135				
Acetone	47190	1000	50000	1054	92.3	60 - 140				
Benzene	52620	500	25000	27060	102	80 - 120				
Bromodichloromethane	26860	500	25000	0	107	75 - 125				
Bromoform	25350	500	25000	0	101	70 - 130				
Bromomethane	23920	500	25000	0	95.7	60 - 140				
Carbon disulfide	55230	1000	50000	0	110	70 - 130				
Carbon tetrachloride	29590	500	25000	0	118	79 - 120				
Chlorobenzene	24690	500	25000	0	98.7	80 - 120				
Chloroethane	27390	500	25000	0	110	70 - 130				
Chloroform	26790	500	25000	0	107	70 - 130				
Chloromethane	28620	500	25000	0	114	65 - 130				
cis-1,2-Dichloroethene	27570	500	25000	0	110	75 - 125				
cis-1,3-Dichloropropene	29280	500	25000	0	117	79 - 125				
Cyclohexane	27830	500	25000	0	111	70 - 130				
Dibromochloromethane	26490	500	25000	0	106	70 - 130				
Dichlorodifluoromethane	28100	500	25000	0	112	60 - 140				
Ethylbenzene	27270	500	25000	1416	103	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: R259945 **Instrument: VOA4** **Method: SW8260**

MS Sample ID: **HS15080672-06MS** Units: **ug/L** Analysis Date: **21-Aug-2015 14:03**
Client ID: Run ID: **VOA4_259945** SeqNo: **3397268** PrepDate: DF: **500**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	27960	500	25000	0	112	75 - 130				
m,p-Xylene	53100	1000	50000	562.4	105	80 - 120				
Methyl acetate	24210	500	25000	0	96.9	76 - 122				
Methyl tert-butyl ether	25200	500	25000	0	101	70 - 130				
Methylcyclohexane	26490	500	25000	0	106	70 - 126				
Methylene chloride	25770	1000	25000	0	103	65 - 133				
o-Xylene	27230	500	25000	413.7	107	80 - 120				
Styrene	27120	500	25000	0	108	78 - 122				
Tetrachloroethene	27540	500	25000	0	110	75 - 130				
Toluene	26550	500	25000	262.6	105	75 - 121				
trans-1,2-Dichloroethene	27240	500	25000	0	109	75 - 125				
trans-1,3-Dichloropropene	24310	500	25000	0	97.3	76 - 125				
Trichloroethene	26570	500	25000	0	106	71 - 125				
Trichlorofluoromethane	31060	500	25000	0	124	67 - 132				
Vinyl chloride	29170	500	25000	0	117	70 - 135				
Xylenes, Total	80330	1500	75000	976.1	106	80 - 124				
Surr: 1,2-Dichloroethane-d4	*24300*	*500*	*25000*	*0*	*97.2*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*24470*	*500*	*25000*	*0*	*97.9*	*70 - 125*				
Surr: Dibromofluoromethane	*25180*	*500*	*25000*	*0*	*101*	*74 - 125*				
Surr: Toluene-d8	*25730*	*500*	*25000*	*0*	*103*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: R259945 **Instrument: VOA4** **Method: SW8260**

MSD Sample ID: **HS15080672-06MSD** Units: **ug/L** Analysis Date: **21-Aug-2015 14:29**
Client ID: Run ID: **VOA4_259945** SeqNo: **3397269** PrepDate: DF: **500**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	28680	500	25000	0	115	75 - 130	29510	2.83	20	
1,1,2,2-Tetrachloroethane	22370	500	25000	0	89.5	74 - 123	21770	2.73	20	
1,1,2-Trichlor-1,2,2-trifluoroethane	26380	500	25000	0	106	70 - 130	27970	5.85	20	
1,1,2-Trichloroethane	23950	500	25000	0	95.8	80 - 120	24520	2.35	20	
1,1-Dichloroethane	26290	500	25000	0	105	76 - 120	27030	2.79	20	
1,1-Dichloroethene	26190	500	25000	0	105	75 - 130	27490	4.82	20	
1,2,4-Trichlorobenzene	25020	500	25000	0	100	75 - 126	22920	8.77	20	
1,2-Dibromo-3-chloropropane	24430	500	25000	0	97.7	65 - 125	21710	11.8	20	
1,2-Dibromoethane	25380	500	25000	0	102	80 - 121	25910	2.06	20	
1,2-Dichlorobenzene	23630	500	25000	0	94.5	80 - 120	22740	3.86	20	
1,2-Dichloroethane	25720	500	25000	0	103	76 - 120	26260	2.07	20	
1,2-Dichloropropane	27850	500	25000	0	111	80 - 120	27990	0.489	20	
1,3-Dichlorobenzene	24580	500	25000	0	98.3	80 - 120	23900	2.83	20	
1,4-Dichlorobenzene	23450	500	25000	0	93.8	80 - 120	23000	1.93	20	
2-Butanone	47740	1000	50000	0	95.5	60 - 140	48150	0.848	20	
2-Hexanone	47210	1000	50000	0	94.4	60 - 131	44780	5.28	20	
4-Methyl-2-pentanone	50140	1000	50000	0	100	60 - 135	50520	0.759	20	
Acetone	47550	1000	50000	1054	93.0	60 - 140	47190	0.76	20	
Benzene	50780	500	25000	27060	94.9	80 - 120	52620	3.56	20	
Bromodichloromethane	25760	500	25000	0	103	75 - 125	26860	4.19	20	
Bromoform	25790	500	25000	0	103	70 - 130	25350	1.7	20	
Bromomethane	25920	500	25000	0	104	60 - 140	23920	8.03	20	
Carbon disulfide	53130	1000	50000	0	106	70 - 130	55230	3.87	20	
Carbon tetrachloride	28950	500	25000	0	116	75 - 125	29590	2.21	20	
Chlorobenzene	24500	500	25000	0	98.0	80 - 120	24690	0.74	20	
Chloroethane	25960	500	25000	0	104	70 - 130	27390	5.36	20	
Chloroform	25470	500	25000	0	102	70 - 130	26790	5.07	20	
Chloromethane	25640	500	25000	0	103	65 - 130	28620	11	20	
cis-1,2-Dichloroethene	26220	500	25000	0	105	75 - 125	27570	5.02	20	
cis-1,3-Dichloropropene	28220	500	25000	0	113	79 - 125	29280	3.66	20	
Cyclohexane	26330	500	25000	0	105	70 - 130	27830	5.55	20	
Dibromochloromethane	26340	500	25000	0	105	70 - 130	26490	0.576	20	
Dichlorodifluoromethane	26830	500	25000	0	107	60 - 140	28100	4.61	20	
Ethylbenzene	26980	500	25000	1416	102	80 - 120	27270	1.05	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: HS15080818

QC BATCH REPORT

Batch ID: R259945 **Instrument: VOA4** **Method: SW8260**

MSD Sample ID: **HS15080672-06MSD** Units: **ug/L** Analysis Date: **21-Aug-2015 14:29**
Client ID: Run ID: **VOA4_259945** SeqNo: **3397269** PrepDate: DF: **500**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	27540	500	25000	0	110	75 - 130	27960	1.52	20	
m,p-Xylene	52810	1000	50000	562.4	104	80 - 120	53100	0.549	20	
Methyl acetate	24100	500	25000	0	96.4	76 - 122	24210	0.483	20	
Methyl tert-butyl ether	25120	500	25000	0	100	70 - 130	25200	0.328	20	
Methylcyclohexane	25590	500	25000	0	102	70 - 126	26490	3.46	20	
Methylene chloride	25040	1000	25000	0	100	65 - 133	25770	2.87	20	
o-Xylene	26440	500	25000	413.7	104	80 - 120	27230	2.94	20	
Styrene	26580	500	25000	0	106	78 - 122	27120	2.02	20	
Tetrachloroethene	26180	500	25000	0	105	75 - 130	27540	5.05	20	
Toluene	26130	500	25000	262.6	103	75 - 121	26550	1.6	20	
trans-1,2-Dichloroethene	25670	500	25000	0	103	75 - 125	27240	5.94	20	
trans-1,3-Dichloropropene	24040	500	25000	0	96.1	76 - 125	24310	1.15	20	
Trichloroethene	25630	500	25000	0	103	71 - 125	26570	3.6	20	
Trichlorofluoromethane	29140	500	25000	0	117	67 - 132	31060	6.36	20	
Vinyl chloride	27120	500	25000	0	108	70 - 135	29170	7.26	20	
Xylenes, Total	79250	1500	75000	976.1	104	80 - 124	80330	1.35	20	
Surr: 1,2-Dichloroethane-d4	*23570*	*500*	*25000*	*0*	*94.3*	*71 - 125*	*24300*	*3.07*	*20*	
Surr: 4-Bromofluorobenzene	*24390*	*500*	*25000*	*0*	*97.6*	*70 - 125*	*24470*	*0.333*	*20*	
Surr: Dibromofluoromethane	*24400*	*500*	*25000*	*0*	*97.6*	*74 - 125*	*25180*	*3.13*	*20*	
Surr: Toluene-d8	*24880*	*500*	*25000*	*0*	*99.5*	*75 - 125*	*25730*	*3.34*	*20*	

The following samples were anayzed in this batch: HS15080818-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.002
WorkOrder: **HS15080818**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	30-Sep-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: W&M Environmental Group, L.L.C
Project: 1483.002
Work Order: HS15080818

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15080818-01	B-1/TMW-1	Login	8/21/2015 10:01:52 AM	PMG	VW-3
HS15080818-01	B-1/TMW-1	Login	8/21/2015 10:01:52 AM	PMG	TPH C1
HS15080818-02	B-4/TMW-4	Login	8/21/2015 10:01:52 AM	PMG	14B

Sample Receipt Checklist

Client Name: WM_Fort Worth
Work Order: HS15080818
Date/Time Received: **19-Aug-2015 11:30**
Received by: **BHH**

Checklist completed by: *Paresh M. Giga* (eSignature) 21-Aug-2015 (Date)
Reviewed by: (eSignature) (Date)

Matrices: **Groundwater**
Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.9c/2.2c U/C	IR4	
Cooler(s)/Kit(s):	Sml Red		
Date/Time sample(s) sent to storage:	8/21/15 10:15		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

ALS Environmental

Chain of Custody Fo

Page _____ of _____

COC ID: 20750

HS15080818

W&M Environmental Group, L.L.C

1483.002

ton, WV 68

80

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	
Work Order		Project Number	1483.002
Company Name	Wtm Environmental	Bill To Company	Wtm Environmental
Send Report To	Ross Zapalac	Invoice Attn	Accounts Payable
Address	6825 Manhattan Blvd. Suite 125	Address	6825 Manhattan Suite 125
City/State/Zip	Fort Worth, Tx 76120	City/State/Zip	Fort Worth, Tx 76120
Phone	817-402-3128	Phone	817-402-3128
Fax		Fax	
e-Mail Address	rzapalac@wh-m.com	e-Mail Address	accounts_payable@wh-m.com

A	VOC, 8260
B	TPH, 1005
C	Organochlorinated Pesticides, 8081
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-1/TMW-1	8/18/15	15:29	GW	1	4	X	X									
2	B-4/TMW-4	↓	16:46	↓	—	1			X								
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Ross Zapalac RBZ

Shipment Method:

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by: RBZ	Date: 8/18/15	Time: 18:15	Received by:	
Relinquished by:	Date: 8/19/15	Time: 11:30	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory): 8-20-15 09:15	

Notes:

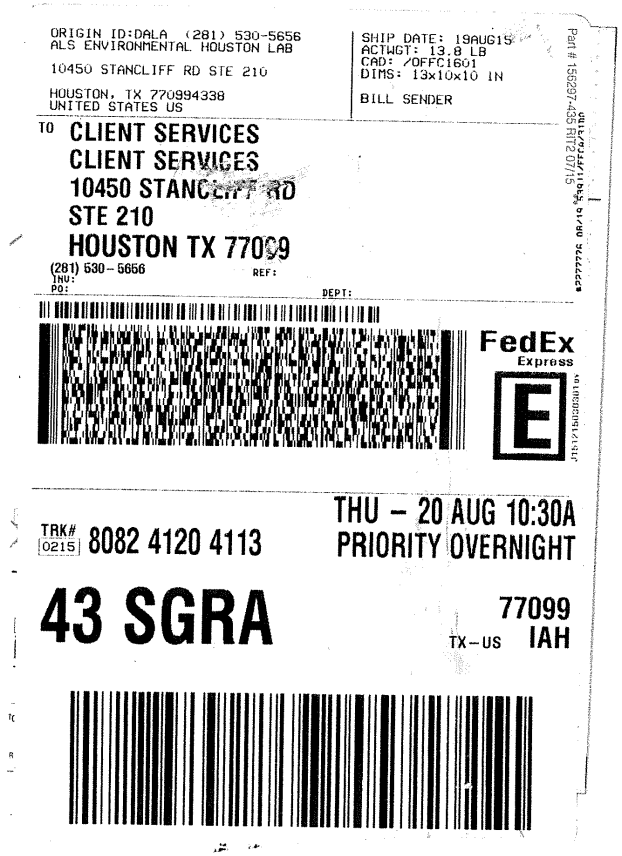
Cooler ID	Cooler Temp
Red	0.1C
	1.90
	#4
	diff 0.3

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.


ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
CUSTODY
Date: 8-19-15
Time:
Name:
Company:
SEAL
17.10
Date:
10:30 A
4113


ORIGIN ID:DALA (281) 530-5656
ALS ENVIRONMENTAL HOUSTON LAB
10450 STANCLIFF RD STE 210
HOUSTON, TX 770994338
UNITED STATES US
SHIP DATE: 19AUG15
ACTWGT: 13.8 LB
CAD: /OFFC1601
DIMS: 13x10x10 IN
BILL SENDER
TO CLIENT SERVICES
CLIENT SERVICES
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099
(281) 530-5656
INV:
PO:
REF:
DEPT:
FedEx
Express
TRK# 0215 8082 4120 4113
THU - 20 AUG 10:30A
PRIORITY OVERNIGHT
43 SGRA
77099
TX-US IAH

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

July 31, 2015

Paul Rodusky
W&M Environmental Group, L.L.C
6825 Manhattan Blvd.
Suite 125
Fort Worth, TX 76120

Work Order: **HS15071076**

Laboratory Results for: **1483.001**

Dear Paul,

ALS Environmental received 1 sample(s) on Jul 24, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Dayna.Fisher
Bernadette A. Fini
Project Manager

Client:	W&M Environmental Group, L.L.C
Project:	1483.001
WorkOrder:	**HS15071076**

TRRP Laboratory Data Package Cover Page

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:

a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:

a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client:	W&M Environmental Group, L.L.C
Project:	1483.001
WorkOrder:	**HS15071076**

TRRP Laboratory Data Package Cover Page

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bernadette A. Fini
Project Manager

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 07/31/2015				
Project Name: 1483.001			Laboratory Job Number: HS15071076				
Reviewer Name: Bernadette A. Fini			Prep Batch Number(s): 95633				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?		X			1
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?		X			2
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 07/31/2015				
Project Name: 1483.001			Laboratory Job Number: HS15071076				
Reviewer Name: Bernadette A. Fini			Prep Batch Number(s): 95633				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Laboratory Group		LRC Date: 07/31/2015
Project Name: 1483.001		Laboratory Job Number: HS15071076
Reviewer Name: Bernadette A. Fini		Prep Batch Number(s): 95633
ER#[5]	**Description**	
1	Batch 95633, Organochlorine Pesticides by Method SW8081: The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS.	
2	Batch 95633. Organochlorine Pesticides by Method SW8081: Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.	

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Work Order: HS15071076

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15071076-01	B-4/TMW-4	Groundwater		24-Jul-2015 16:00	24-Jul-2015 17:20	☐

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Sample ID: B-4/TMW-4
Collection Date: 24-Jul-2015 16:00

ANALYTICAL REPORT
WorkOrder:HS15071076
Lab ID:HS15071076-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ORGANOCHLORINE PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3510C/3665A / 28-Jul-2015		Analyst: STH
4,4´-DDD		U	0.0080	0.10	ug/L	1	30-Jul-2015 14:00
4,4´-DDE		U	0.0040	0.10	ug/L	1	30-Jul-2015 14:00
4,4´-DDT		U	0.0070	0.10	ug/L	1	30-Jul-2015 14:00
Aldrin		U	0.010	0.050	ug/L	1	30-Jul-2015 14:00
alpha-BHC		U	0.010	0.050	ug/L	1	30-Jul-2015 14:00
beta-BHC		U	0.010	0.050	ug/L	1	30-Jul-2015 14:00
Chlordane		U	0.10	0.50	ug/L	1	30-Jul-2015 14:00
delta-BHC		U	0.010	0.050	ug/L	1	30-Jul-2015 14:00
Dieldrin		U	0.010	0.10	ug/L	1	30-Jul-2015 14:00
Endosulfan I		U	0.010	0.050	ug/L	1	30-Jul-2015 14:00
Endosulfan II		U	0.020	0.10	ug/L	1	30-Jul-2015 14:00
Endosulfan sulfate		U	0.030	0.10	ug/L	1	30-Jul-2015 14:00
Endrin		U	0.030	0.10	ug/L	1	30-Jul-2015 14:00
Endrin aldehyde		U	0.030	0.10	ug/L	1	30-Jul-2015 14:00
Endrin ketone		U	0.030	0.10	ug/L	1	30-Jul-2015 14:00
gamma-BHC		U	0.010	0.050	ug/L	1	30-Jul-2015 14:00
Heptachlor		U	0.010	0.050	ug/L	1	30-Jul-2015 14:00
Heptachlor epoxide		U	0.010	0.050	ug/L	1	30-Jul-2015 14:00
Methoxychlor		U	0.15	0.50	ug/L	1	30-Jul-2015 14:00
Toxaphene		U	0.19	0.50	ug/L	1	30-Jul-2015 14:00
Surr: Decachlorobiphenyl	*102*			*54.9-145*	*%REC*	*1*	*30-Jul-2015 14:00*
Surr: Tetrachloro-m-xylene	*96.5*			*51.5-142*	*%REC*	*1*	*30-Jul-2015 14:00*
MISCELLANEOUS PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3510C/3665A / 28-Jul-2015		Analyst: STH
alpha-Chlordane		U	0.020	0.050	ug/L	1	30-Jul-2015 14:00
gamma-Chlordane		U	0.020	0.050	ug/L	1	30-Jul-2015 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15071076

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 95633	**Test Name :** ORGANOCHLORINE PESTICIDES BY SW8081B			**Matrix:** Groundwater		
HS15071076-01	B-4/TMW-4	24 Jul 2015 16:00		28 Jul 2015 07:54	30 Jul 2015 14:00	1
HS15071076-01	B-4/TMW-4	24 Jul 2015 16:00		28 Jul 2015 07:54	30 Jul 2015 14:00	1
HS15071076-01	B-4/TMW-4	24 Jul 2015 16:00		28 Jul 2015 07:54	30 Jul 2015 14:00	1
HS15071076-01	B-4/TMW-4	24 Jul 2015 16:00		28 Jul 2015 07:54	30 Jul 2015 14:00	1

WorkOrder: HS15071076
InstrumentID: ECD_1
Test Code: 8081_W
Test Number: SW8081
Test Name: Organochlorine Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	4,4´-DDD	72-54-8	0.050	0.022	0.0080	0.10
A	4,4´-DDE	72-55-9	0.050	0.021	0.0040	0.10
A	4,4´-DDT	50-29-3	0.050	0.022	0.0070	0.10
A	Aldrin	309-00-2	0.025	0.011	0.010	0.050
A	alpha-BHC	319-84-6	0.050	0.035	0.010	0.050
A	beta-BHC	319-85-7	0.025	0.012	0.010	0.050
A	Chlordane	57-74-9	0.50	0.37	0.10	0.50
A	delta-BHC	319-86-8	0.025	0.0093	0.010	0.050
A	Dieldrin	60-57-1	0.050	0.022	0.010	0.10
A	Endosulfan I	959-98-8	0.025	0.011	0.010	0.050
A	Endosulfan II	33213-65-9	0.050	0.016	0.020	0.10
A	Endosulfan sulfate	1031-07-8	0.050	0.024	0.030	0.10
A	Endrin	72-20-8	0.050	0.023	0.030	0.10
A	Endrin aldehyde	7421-93-4	0.050	0.028	0.030	0.10
A	Endrin ketone	53494-70-5	0.050	0.025	0.030	0.10
A	gamma-BHC	58-89-9	0.025	0.010	0.010	0.050
A	Heptachlor	76-44-8	0.025	0.012	0.010	0.050
A	Heptachlor epoxide	1024-57-3	0.025	0.013	0.010	0.050
A	Methoxychlor	72-43-5	0.25	0.13	0.15	0.50
A	Toxaphene	8001-35-2	0.50	0.34	0.19	0.50
S	Decachlorobiphenyl	2051-24-3	0	0	0	0
S	Tetrachloro-m-xylene	877-09-8	0	0	0	0

WorkOrder: HS15071076
InstrumentID: ECD_1
Test Code: 8081-MISC_W
Test Number: SW8081
Test Name: Miscellaneous Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	alpha-Chlordane	5103-71-9	0.025	0.013	0.020	0.050
A	gamma-Chlordane	5566-34-7	0.025	0.015	0.020	0.050

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15071076

QC BATCH REPORT

Batch ID: 95633 **Instrument: ECD_1** **Method: SW8081**

MBLK Sample ID: **MBLK-95633** Units: **ug/L** Analysis Date: **30-Jul-2015 13:11**
Client ID: Run ID: **ECD_1_258790** SeqNo: **3373607** PrepDate: **28-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	0.10								
4,4´-DDE	U	0.10								
4,4´-DDT	U	0.10								
Aldrin	U	0.050								
alpha-BHC	U	0.050								
beta-BHC	U	0.050								
Chlordane	U	0.50								
delta-BHC	U	0.050								
Dieldrin	U	0.10								
Endosulfan I	U	0.050								
Endosulfan II	U	0.10								
Endosulfan sulfate	U	0.10								
Endrin	U	0.10								
Endrin aldehyde	U	0.10								
Endrin ketone	U	0.10								
gamma-BHC	U	0.050								
Heptachlor	U	0.050								
Heptachlor epoxide	U	0.050								
Methoxychlor	U	0.50								
Toxaphene	U	0.50								
Surr: Decachlorobiphenyl	*0.1908*	*0*	*0.2*	*0*	*95.4*	*54.9 - 145*				
Surr: Tetrachloro-m-xylene	*0.1939*	*0*	*0.2*	*0*	*96.9*	*51.5 - 142*				

MBLK Sample ID: **MBLK-95633** Units: **ug/L** Analysis Date: **30-Jul-2015 13:11**
Client ID: Run ID: **ECD_1_258790** SeqNo: **3373612** PrepDate: **28-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	U	0.050								
gamma-Chlordane	U	0.050								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15071076

QC BATCH REPORT

Batch ID: 95633 **Instrument: ECD_1** **Method: SW8081**

LCS Sample ID: **LCS-95633** Units: **ug/L** Analysis Date: **30-Jul-2015 13:27**
Client ID: Run ID: **ECD_1_258790** SeqNo: **3373644** PrepDate: **28-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.3834	0.10	0.5	0	76.7	53 - 144				
4,4´-DDE	0.3952	0.10	0.5	0	79.0	55 - 144				
4,4´-DDT	0.3826	0.10	0.5	0	76.5	53 - 149				
Aldrin	0.2038	0.050	0.25	0	81.5	47 - 141				
alpha-BHC	0.1861	0.050	0.25	0	74.4	51 - 141				
beta-BHC	0.2046	0.050	0.25	0	81.9	58 - 144				
delta-BHC	0.1337	0.050	0.25	0	53.5	48 - 146				
Dieldrin	0.4191	0.10	0.5	0	83.8	56 - 144				
Endosulfan I	0.2116	0.050	0.25	0	84.6	55 - 141				
Endosulfan II	0.421	0.10	0.5	0	84.2	57 - 144				
Endosulfan sulfate	0.3801	0.10	0.5	0	76.0	58 - 145				
Endrin	0.431	0.10	0.5	0	86.2	60 - 163				
Endrin aldehyde	0.4264	0.10	0.5	0	85.3	59 - 158				
Endrin ketone	0.4144	0.10	0.5	0	82.9	59 - 154				
gamma-BHC	0.1921	0.050	0.25	0	76.8	53 - 142				
Heptachlor	0.2042	0.050	0.25	0	81.7	51 - 144				
Heptachlor epoxide	0.2064	0.050	0.25	0	82.6	55 - 142				
Methoxychlor	2.004	0.50	2.5	0	80.2	59 - 150				
Surr: Decachlorobiphenyl	*0.1789*	*0*	*0.2*	*0*	*89.5*	*54.9 - 145*				
Surr: Tetrachloro-m-xylene	*0.1861*	*0*	*0.2*	*0*	*93.0*	*51.5 - 142*				

LCS Sample ID: **LCS-95633** Units: **ug/L** Analysis Date: **30-Jul-2015 13:27**
Client ID: Run ID: **ECD_1_258790** SeqNo: **3373645** PrepDate: **28-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	0.2111	0.050	0.25	0	84.5	55 - 141				
gamma-Chlordane	0.203	0.050	0.25	0	81.2	55 - 137				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: HS15071076

QC BATCH REPORT

Batch ID: 95633 **Instrument: ECD_1** **Method: SW8081**

LCSD Sample ID: **LCSD-95633** Units: **ug/L** Analysis Date: **30-Jul-2015 13:44**
Client ID: Run ID: **ECD_1_258790** SeqNo: **3373609** PrepDate: **28-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
4,4´-DDD	0.4079	0.10	0.5	0	81.6	53 - 144	0.3834	6.18	20	
4,4´-DDE	0.4026	0.10	0.5	0	80.5	55 - 144	0.3952	1.84	20	
4,4´-DDT	0.3883	0.10	0.5	0	77.7	53 - 149	0.3826	1.49	20	
Aldrin	0.2082	0.050	0.25	0	83.3	47 - 141	0.2038	2.13	20	
alpha-BHC	0.1894	0.050	0.25	0	75.7	51 - 141	0.1861	1.75	20	
beta-BHC	0.206	0.050	0.25	0	82.4	58 - 144	0.2046	0.667	20	
delta-BHC	0.1353	0.050	0.25	0	54.1	48 - 146	0.1337	1.19	20	
Dieldrin	0.428	0.10	0.5	0	85.6	56 - 144	0.4191	2.12	20	
Endosulfan I	0.2157	0.050	0.25	0	86.3	55 - 141	0.2116	1.92	20	
Endosulfan II	0.4296	0.10	0.5	0	85.9	57 - 144	0.421	2.01	20	
Endosulfan sulfate	0.3922	0.10	0.5	0	78.4	58 - 145	0.3801	3.14	20	
Endrin	0.4212	0.10	0.5	0	84.2	60 - 163	0.431	2.3	20	
Endrin aldehyde	0.4359	0.10	0.5	0	87.2	59 - 158	0.4264	2.21	20	
Endrin ketone	0.416	0.10	0.5	0	83.2	59 - 154	0.4144	0.383	20	
gamma-BHC	0.1949	0.050	0.25	0	78.0	53 - 142	0.1921	1.48	20	
Heptachlor	0.208	0.050	0.25	0	83.2	51 - 144	0.2042	1.83	20	
Heptachlor epoxide	0.2103	0.050	0.25	0	84.1	55 - 142	0.2064	1.86	20	
Methoxychlor	2.041	0.50	2.5	0	81.7	59 - 150	2.004	1.84	20	
Surr: Decachlorobiphenyl	*0.1791*	*0*	*0.2*	*0*	*89.6*	*54.9 - 145*	*0.1789*	*0.112*	*20*	
Surr: Tetrachloro-m-xylene	*0.1848*	*0*	*0.2*	*0*	*92.4*	*51.5 - 142*	*0.1861*	*0.728*	*20*	

LCSD Sample ID: **LCSD-95633** Units: **ug/L** Analysis Date: **30-Jul-2015 13:44**
Client ID: Run ID: **ECD_1_258790** SeqNo: **3373614** PrepDate: **28-Jul-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
alpha-Chlordane	0.2154	0.050	0.25	0	86.1	55 - 141	0.2111	1.98	20	
gamma-Chlordane	0.2064	0.050	0.25	0	82.6	55 - 137	0.203	1.68	20	

The following samples were anayzed in this batch: HS15071076-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.001
WorkOrder: **HS15071076**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Aug-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: W&M Environmental Group, L.L.C
Project: 1483.001
Work Order: HS15071076

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15071076-01	B-4/TMW-4	Login	7/27/2015 11:46:47 AM	RPG	5E

Sample Receipt Checklist

Client Name: WM_Fort Worth
Work Order: HS15071076

Date/Time Received: **24-Jul-2015 17:20**
Received by: **PMG**

Checklist completed by: *Raegen Giga* eSignature 27-Jul-2015 Date

Reviewed by: *Bernadette A. Fini* eSignature 27-Jul-2015 Date

Matrices: **water**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.9c/1.2c u/c	IR 4	
Cooler(s)/Kit(s):	24579		
Date/Time sample(s) sent to storage:	07/27/2015 11:50		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Environmental
Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 20874

HS15071076

W&M Environmental Group, L.L.C

1483.001

Customer Information		Project Information		ALS Project Manager:	
Purchase Order		Project Name	~~1483~~ R2	A	Organochlorinated pesticides, 8081
Work Order		Project Number	1483.001	B	
Company Name	W&M Environmental	Bill To Company	Re: To Left	C	
Send Report To	Paul Podulsky	Invoice Attn	Accounts Payable	D	
Address	6825 Manhattan Blvd. Suite 125	Address		E	
City/State/Zip	Fort Worth, Texas 76120	City/State/Zip		F	
Phone	817-402-3128	Phone		G	
Fax		Fax		H	
e-Mail Address	podulsky@wm.com	e-Mail Address	accounts_payable	I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B-4/TMW-4	7/24/15	1600	GW	—	1	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Ross Zapalac RBZ

Shipment Method:

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date:

Relinquished by: RBZ — Date: 7/24/15 — Time: 1645 — Received by:

Relinquished by: — Date: 7-24-15 — Time: 17:20 — Received by (Laboratory):

Logged by (Laboratory): — Date: — Time: — Checked by (Laboratory): 7.25.15 09:05

Notes:

Cooler ID	Cooler Temp
24579	0.5° #4 C/F 0.5°

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Environmen
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

tal

24/7R

CUSTODY SEAL

Date: 7-24-15 Time: 1240
Name: Devin Rios
Company: ALS

Seal Broken By:
Date: 7/25/15

ORIGIN ID:DALA

SHIP DATE: 24JUL15
ACTWGT: 55.2 LB
CAD: /OFFC1801
DIMS: 24x14x14 IN
BILL THIRD PARTY

UNITED STATES US

TO CLIENT SVCS
CLIENT SERVICES
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099
(281) 530-5656 REF:
INV: DEPT:
PO:

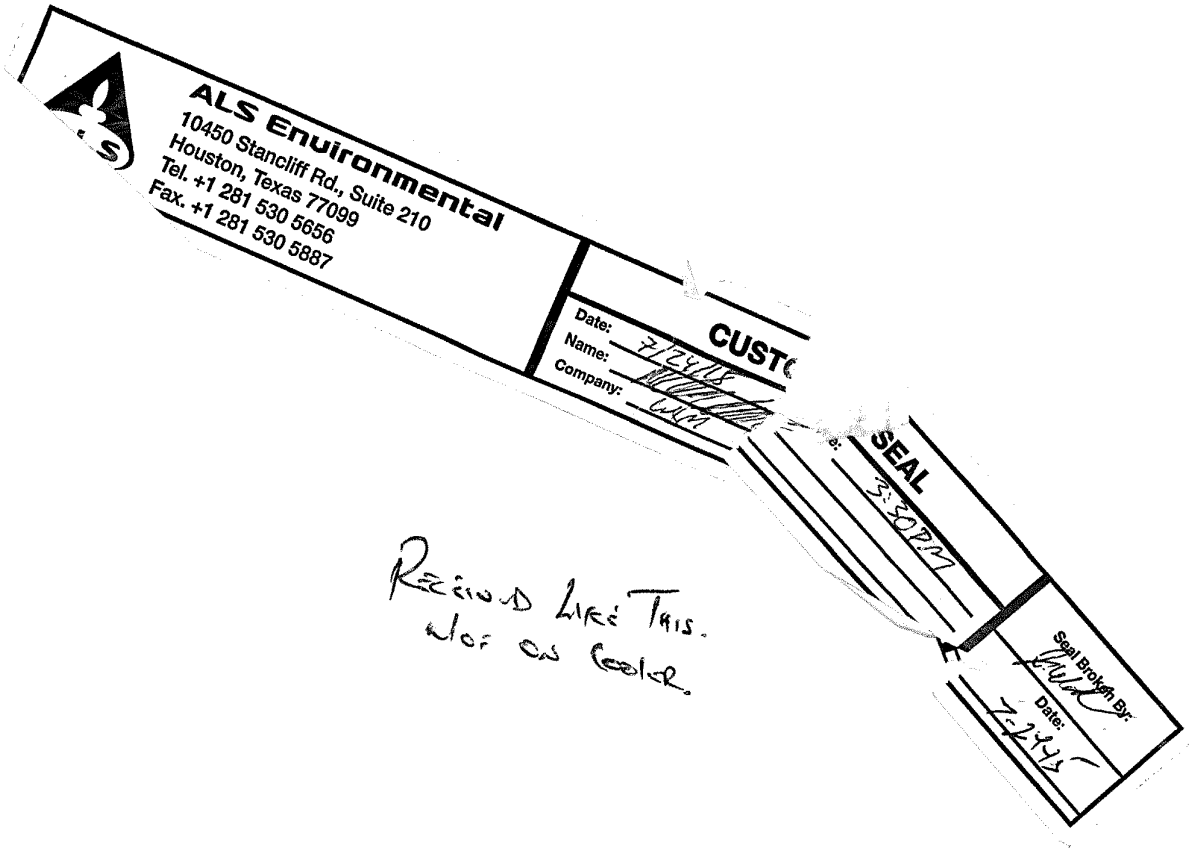
FedEx Express

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0215 8082 4120 4477

XO SGRA

77099
TX-US IAH


ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
CUST
Date: 7/24/18
Name:
Company:
SEAL
3.30 PM
Seal Broken By:
Date:
7-24-18
Received Like This.
No ice in Cooler.

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

August 21, 2015

Nick Cramer
W&M Environmental Group, L.L.C
6825 Manhattan Blvd.
Suite 125
Fort Worth, TX 76120

Work Order: **HS15080177**

Laboratory Results for: **1483.003**

Dear Nick,

ALS Environmental received 3 sample(s) on Aug 04, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Dayna.Fisher
Bernadette A. Fini
Project Manager

Client:	W&M Environmental Group, L.L.C	**TRRP Laboratory Data Package Cover Page**
Project:	1483.003	
WorkOrder:	**HS15080177**	

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:

a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:

a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client:	W&M Environmental Group, L.L.C
Project:	1483.003
WorkOrder:	**HS15080177**

TRRP Laboratory Data Package Cover Page

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bernadette A. Fini
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 08/21/2015					
Project Name: 1483.003			Laboratory Job Number: HS15080177					
Reviewer Name: Bernadette A. Fini			Prep Batch Number(s): 95937, 95999, 95999a, 96212, 96324, R259176, R259310, R259944					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			4
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				6

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 08/21/2015					
Project Name: 1483.003			Laboratory Job Number: HS15080177					
Reviewer Name: Bernadette A. Fini			Prep Batch Number(s): 95937, 95999, 95999a, 96212, 96324, R259176, R259310, R259944					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?		X			7
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Laboratory Group		LRC Date: 08/21/2015
Project Name: 1483.003		Laboratory Job Number: HS15080177
Reviewer Name: Bernadette A. Fini		Prep Batch Number(s): 95937, 95999, 95999a, 96212, 96324, R259176, R259310, R259944
ER#[5]	**Description**	
1	Texas TPH Method TX1005, Sample "HA-1 (0-0.5')": Surrogate recoveries, 2-Fluorobiphenyl and Trifluoromethyl benzene, were diluted out in the 100X dilution.	
2	Batch 95999, Organochlorine Pesticides by Method SW8081, Sample "HA-1 (0-0.5')": MS and/or MSD recoveries were outside the control limits for several compounds, due to sample matrix interference. Batch 95999a, Organochlorine Pesticides by Method SW8081, Sample "HA-1 (0-0.5')": MS/MSD recoveries were outside the control limits, due to sample matrix interference. Batch 96212, Semivolatile Organics by Method SW8270, Sample HS15080472-13 MS and MSD were performed on an unrelated sample. Batch R259176, Volatile Organics by Method SW8260, Sample HS15080052-02 MS and MSD were performed on an unrelated sample.	
3	Batch 95999, Pesticides by Method SW8081, Sample "HA-1 (0-0.5')": MS/MSD RPDs were outside control limits for several compounds. Batch 96212, Semivolatile Organics by Method SW8270, Sample HS15080472-13 MS/MSD RPD was performed on an unrelated sample.	
4	Batch R259310, Percent Moisture by Method SW3550, Sample HS15080153-17 Duplicate RPD was performed on an unrelated sample.	
5	Batch 96212, Semivolatile Organics by Method SW8270, Sample HA-1 (0-0.5'): The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.	
6	With the exception of cyclohexane by Method SW8260 and Petroleum Hydrocarbons by Method TX1006, ALS is NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package. Because TCEQ does not offer accreditation for this compound, the results are flagged with n.	
7	Organochlorine Pesticides by Method SW8081: Results are P qualified for several compounds in Sample "HA-1 (0-0.5')": This indicates possible co-elution or matrix interference on the confirming column. Miscellaneous Pesticides by Method SW8081B: Results are P qualified for alpha-Chlordane and gamma-Chlordane in Sample "HA-1 (0-0.5')". This indicates possible co-elution or matrix interference on the confirming column. Batch 95999, Organochlorine Pesticides by Method SW8081: LCS is P qualified for Endosulfan I. This indicates possible co-elution or matrix interference on the confirming column. Batch 95999, Organochlorine Pesticides by Method SW8081, Sample "HA-1 (0-0.5')": MS and/or MSD is P qualified for several compounds. This indicates possible co-elution or matrix interference on the confirming column.	

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Work Order: HS15080177

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15080177-01	HA-1 (0-0.5')	Soil		04-Aug-2015 07:50	04-Aug-2015 14:55	☐
HS15080177-02	HA-1 (1-3')	Soil		04-Aug-2015 08:20	04-Aug-2015 14:55	☐
HS15080177-03	HA-1 (3-5')	Soil		04-Aug-2015 08:40	04-Aug-2015 14:55	☑

Client: W&M Environmental Group, L.L.C **ANALYTICAL REPORT**
Project: 1483.003 WorkOrder:HS15080177
Sample ID: HA-1 (0-0.5') Lab ID:HS15080177-01
Collection Date: 04-Aug-2015 07:50 Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: WLR
1,1,1-Trichloroethane	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,1,2,2-Tetrachloroethane	U		0.00089	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.00078	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,1,2-Trichloroethane	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,1-Dichloroethane	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,1-Dichloroethene	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,2,4-Trichlorobenzene	U		0.0012	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,2-Dibromo-3-chloropropane	U		0.0018	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,2-Dibromoethane	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,2-Dichlorobenzene	U		0.0011	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,2-Dichloroethane	U		0.00067	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,2-Dichloropropane	U		0.00089	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,3-Dichlorobenzene	U		0.0012	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
1,4-Dichlorobenzene	U		0.0011	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
2-Butanone	**0.084**		**0.0015**	**0.011**	**mg/Kg-dry**	1	06-Aug-2015 22:59
2-Hexanone	U		0.0016	0.011	mg/Kg-dry	1	06-Aug-2015 22:59
4-Methyl-2-pentanone	**0.29**		**0.0022**	**0.011**	**mg/Kg-dry**	1	06-Aug-2015 22:59
Acetone	**0.22**		**0.0035**	**0.022**	**mg/Kg-dry**	1	06-Aug-2015 22:59
Benzene	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Bromodichloromethane	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Bromoform	U		0.00067	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Bromomethane	U		0.0011	0.011	mg/Kg-dry	1	06-Aug-2015 22:59
Carbon disulfide	U		0.00067	0.011	mg/Kg-dry	1	06-Aug-2015 22:59
Carbon tetrachloride	U		0.00067	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Chlorobenzene	U		0.00067	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Chloroethane	U		0.00089	0.011	mg/Kg-dry	1	06-Aug-2015 22:59
Chloroform	**0.021**		**0.00056**	**0.0056**	**mg/Kg-dry**	1	06-Aug-2015 22:59
Chloromethane	U		0.00056	0.011	mg/Kg-dry	1	06-Aug-2015 22:59
cis-1,2-Dichloroethene	U		0.00089	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
cis-1,3-Dichloropropene	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Cyclohexane	U	n	0.0011	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Dibromochloromethane	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Dichlorodifluoromethane	U		0.00078	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Ethylbenzene	U		0.00078	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Isopropylbenzene	U		0.0010	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
m,p-Xylene	U		0.0018	0.011	mg/Kg-dry	1	06-Aug-2015 22:59
Methyl acetate	U		0.00078	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Methyl tert-butyl ether	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Methylcyclohexane	U		0.0013	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: HA-1 (0-0.5')
Collection Date: 04-Aug-2015 07:50

ANALYTICAL REPORT
WorkOrder:HS15080177
Lab ID:HS15080177-01
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**					Analyst: WLR
Methylene chloride	U		0.0011	0.011	mg/Kg-dry	1	06-Aug-2015 22:59
o-Xylene	U		0.0011	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Styrene	U		0.00078	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Tetrachloroethene	U		0.00078	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Toluene	U		0.00067	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
trans-1,2-Dichloroethene	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
trans-1,3-Dichloropropene	U		0.00067	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Trichloroethene	U		0.00067	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Trichlorofluoromethane	U		0.00056	0.0056	mg/Kg-dry	1	06-Aug-2015 22:59
Vinyl chloride	U		0.00089	0.0022	mg/Kg-dry	1	06-Aug-2015 22:59
Xylenes, Total	U		0.0027	0.011	mg/Kg-dry	1	06-Aug-2015 22:59
Surr: 1,2-Dichloroethane-d4	*91.6*			*70-128*	*%REC*	*1*	*06-Aug-2015 22:59*
Surr: 4-Bromofluorobenzene	*94.9*			*73-126*	*%REC*	*1*	*06-Aug-2015 22:59*
Surr: Dibromofluoromethane	*92.0*			*71-128*	*%REC*	*1*	*06-Aug-2015 22:59*
Surr: Toluene-d8	*101*			*73-127*	*%REC*	*1*	*06-Aug-2015 22:59*
ORGANOCHLORINE PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3546 / 07-Aug-2015		Analyst: NPI
4,4´-DDD	**0.29**	JP	**0.056**	**0.37**	**mg/Kg-dry**	100	11-Aug-2015 14:24
4,4´-DDE	**0.20**	JP	**0.056**	**0.37**	**mg/Kg-dry**	100	11-Aug-2015 14:24
4,4´-DDT	**0.056**		**0.00056**	**0.0037**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Aldrin	**0.018**		**0.00034**	**0.0019**	**mg/Kg-dry**	1	07-Aug-2015 22:49
alpha-BHC	**0.0041**	P	**0.00034**	**0.0019**	**mg/Kg-dry**	1	07-Aug-2015 22:49
beta-BHC	**0.0032**	P	**0.00034**	**0.0019**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Chlordane	U		0.0022	0.019	mg/Kg-dry	1	07-Aug-2015 22:49
delta-BHC	**0.0012**	JP	**0.00022**	**0.0019**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Dieldrin	**0.050**		**0.00056**	**0.0037**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Endosulfan I	**0.019**	P	**0.00034**	**0.0019**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Endosulfan II	**0.038**	JP	**0.034**	**0.18**	**mg/Kg-dry**	50	11-Aug-2015 14:11
Endosulfan sulfate	**0.0056**		**0.00067**	**0.0037**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Endrin	**0.022**	P	**0.00067**	**0.0037**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Endrin aldehyde	**0.018**		**0.00067**	**0.0037**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Endrin ketone	**0.011**		**0.00067**	**0.0037**	**mg/Kg-dry**	1	07-Aug-2015 22:49
gamma-BHC	**0.0051**	P	**0.00022**	**0.0019**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Heptachlor	**0.061**	J	**0.034**	**0.19**	**mg/Kg-dry**	100	11-Aug-2015 14:24
Heptachlor epoxide	**0.15**	J	**0.034**	**0.19**	**mg/Kg-dry**	100	11-Aug-2015 14:24
Methoxychlor	**0.0098**	JP	**0.0038**	**0.019**	**mg/Kg-dry**	1	07-Aug-2015 22:49
Toxaphene	U		0.0054	0.019	mg/Kg-dry	1	07-Aug-2015 22:49
Surr: Decachlorobiphenyl	*68.0*			*59-144*	*%REC*	*1*	*07-Aug-2015 22:49*
Surr: Tetrachloro-m-xylene	*123*			*56.9-130*	*%REC*	*1*	*07-Aug-2015 22:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: HA-1 (0-0.5')
Collection Date: 04-Aug-2015 07:50

ANALYTICAL REPORT
WorkOrder:HS15080177
Lab ID:HS15080177-01
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES	**Method:SW8270**				Prep:SW3541 / 14-Aug-2015		Analyst: LG
Acenaphthene	**0.11**	J	**0.080**	**0.15**	**mg/Kg-dry**	10	14-Aug-2015 18:54
Acenaphthylene	U		0.045	0.15	mg/Kg-dry	10	14-Aug-2015 18:54
Anthracene	U		0.022	0.15	mg/Kg-dry	10	14-Aug-2015 18:54
Benz(a)anthracene	**0.18**		**0.071**	**0.15**	**mg/Kg-dry**	10	14-Aug-2015 18:54
Benzo(a)pyrene	U		0.045	0.15	mg/Kg-dry	10	14-Aug-2015 18:54
Benzo(b)fluoranthene	U		0.053	0.15	mg/Kg-dry	10	14-Aug-2015 18:54
Benzo(g,h,i)perylene	U		0.031	0.15	mg/Kg-dry	10	14-Aug-2015 18:54
Benzo(k)fluoranthene	U		0.040	0.15	mg/Kg-dry	10	14-Aug-2015 18:54
Chrysene	**0.37**		**0.036**	**0.15**	**mg/Kg-dry**	10	14-Aug-2015 18:54
Dibenz(a,h)anthracene	U		0.071	0.15	mg/Kg-dry	10	14-Aug-2015 18:54
Fluoranthene	**0.20**		**0.049**	**0.15**	**mg/Kg-dry**	10	14-Aug-2015 18:54
Fluorene	**0.051**	J	**0.049**	**0.15**	**mg/Kg-dry**	10	14-Aug-2015 18:54
Indeno(1,2,3-cd)pyrene	U		0.093	0.15	mg/Kg-dry	10	14-Aug-2015 18:54
Naphthalene	**0.030**	J	**0.027**	**0.15**	**mg/Kg-dry**	10	14-Aug-2015 18:54
Phenanthrene	**0.14**	J	**0.067**	**0.15**	**mg/Kg-dry**	10	14-Aug-2015 18:54
Pyrene	**1.1**		**0.027**	**0.15**	**mg/Kg-dry**	10	14-Aug-2015 18:54
Surr: 2-Fluorobiphenyl	*88.9*			*43-125*	*%REC*	*10*	*14-Aug-2015 18:54*
Surr: 4-Terphenyl-d14	*109*			*32-125*	*%REC*	*10*	*14-Aug-2015 18:54*
Surr: Nitrobenzene-d5	*72.9*			*37-125*	*%REC*	*10*	*14-Aug-2015 18:54*
PETROLEUM HYDROCARBONS BY TX1006	**Method:TX1006**				Prep:TX1006PR / 14-Aug-2015		Analyst: PV
Aliphatics nC6	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 10:29
Aliphatics >nC6 to nC8	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 10:29
Aliphatics >nC8 to nC10	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 10:29
Aliphatics >nC10 to nC12	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 10:29
Aliphatics >nC12 to nC16	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 10:29
Aliphatics >nC16 to nC21	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 10:29
Aliphatics >nC21 to nC35	**19,000**	n	**560**	**1100**	**mg/Kg-dry**	100	19-Aug-2015 10:29
Total Aliphatic Fraction	**19,000**	n	**560**	**1100**	**mg/Kg-dry**	100	19-Aug-2015 10:29
Aliphatics Relative % Distribution	**88**	n	**0**	**0**	**%-dry**	100	19-Aug-2015 10:29
Aromatics >nC7 to nC8	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 09:24
Aromatics >nC8 to nC10	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 09:24
Aromatics >nC10 to nC12	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 09:24
Aromatics >nC12 to nC16	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 09:24
Aromatics >nC16 to nC21	U	n	560	1100	mg/Kg-dry	100	19-Aug-2015 09:24
Aromatics >nC21 to nC35	**2,700**	n	**560**	**1100**	**mg/Kg-dry**	100	19-Aug-2015 09:24
Total Aromatic Fraction	**2,700**	n	**560**	**1100**	**mg/Kg-dry**	100	19-Aug-2015 09:24
Aromatics Relative % Distribution	**13**	n	**0**	**0**	**%-dry**	100	19-Aug-2015 09:24
Total Petroleum Hydrocarbons	**21,000**	n	**1800**	**5600**	**mg/Kg-dry**	100	19-Aug-2015 10:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: HA-1 (0-0.5')
Collection Date: 04-Aug-2015 07:50

ANALYTICAL REPORT
WorkOrder:HS15080177
Lab ID:HS15080177-01
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
MISCELLANEOUS PESTICIDES BY SW8081B		**Method:SW8081**			Prep:SW3546 / 07-Aug-2015		Analyst: NPI
alpha-Chlordane	**1.0**	P	**0.022**	**0.19**	**mg/Kg-dry**	100	11-Aug-2015 14:24
gamma-Chlordane	**1.1**	P	**0.022**	**0.19**	**mg/Kg-dry**	100	11-Aug-2015 14:24
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 06-Aug-2015		Analyst: JKP
nC6 to nC12	U		1100	5600	mg/Kg-dry	100	06-Aug-2015 21:31
>nC12 to nC28	**14,000**		**1100**	**5600**	**mg/Kg-dry**	100	06-Aug-2015 21:31
>nC28 to nC35	**14,000**		**1100**	**5600**	**mg/Kg-dry**	100	06-Aug-2015 21:31
Total Petroleum Hydrocarbon	**28,000**		**1100**	**5600**	**mg/Kg-dry**	100	06-Aug-2015 21:31
Surr: 2-Fluorobiphenyl	*0*	*S*		*70-130*	*%REC*	*100*	*06-Aug-2015 21:31*
Surr: Trifluoromethyl benzene	*0*	*S*		*70-130*	*%REC*	*100*	*06-Aug-2015 21:31*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**10.6**		**0.0100**	**0.0100**	**wt%**	1	10-Aug-2015 12:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: HA-1 (1-3')
Collection Date: 04-Aug-2015 08:20

ANALYTICAL REPORT
WorkOrder:HS15080177
Lab ID:HS15080177-02
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES	**Method:SW8270**				Prep:SW3541 / 14-Aug-2015		Analyst: LG
Acenaphthene	U		0.0022	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Acenaphthylene	U		0.0012	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Anthracene	**0.0013**	J	**0.00061**	**0.0040**	**mg/Kg-dry**	1	14-Aug-2015 18:34
Benz(a)anthracene	**0.0043**		**0.0019**	**0.0040**	**mg/Kg-dry**	1	14-Aug-2015 18:34
Benzo(a)pyrene	U		0.0012	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Benzo(b)fluoranthene	U		0.0015	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Benzo(g,h,i)perylene	U		0.00085	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Benzo(k)fluoranthene	U		0.0011	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Chrysene	**0.0081**		**0.00097**	**0.0040**	**mg/Kg-dry**	1	14-Aug-2015 18:34
Dibenz(a,h)anthracene	U		0.0019	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Fluoranthene	**0.0042**		**0.0013**	**0.0040**	**mg/Kg-dry**	1	14-Aug-2015 18:34
Fluorene	U		0.0013	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Indeno(1,2,3-cd)pyrene	U		0.0026	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Naphthalene	U		0.00073	0.0040	mg/Kg-dry	1	14-Aug-2015 18:34
Phenanthrene	**0.0027**	J	**0.0018**	**0.0040**	**mg/Kg-dry**	1	14-Aug-2015 18:34
Pyrene	**0.014**		**0.00073**	**0.0040**	**mg/Kg-dry**	1	14-Aug-2015 18:34
Surr: 2-Fluorobiphenyl	*53.1*			*43-125*	*%REC*	*1*	*14-Aug-2015 18:34*
Surr: 4-Terphenyl-d14	*61.0*			*32-125*	*%REC*	*1*	*14-Aug-2015 18:34*
Surr: Nitrobenzene-d5	*55.1*			*37-125*	*%REC*	*1*	*14-Aug-2015 18:34*
PETROLEUM HYDROCARBONS BY TX1006	**Method:TX1006**				Prep:TX1006PR / 14-Aug-2015		Analyst: PV
Aliphatics nC6	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 11:02
Aliphatics >nC6 to nC8	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 11:02
Aliphatics >nC8 to nC10	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 11:02
Aliphatics >nC10 to nC12	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 11:02
Aliphatics >nC12 to nC16	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 11:02
Aliphatics >nC16 to nC21	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 11:02
Aliphatics >nC21 to nC35	**77**	n	**6.0**	**12**	**mg/Kg-dry**	1	19-Aug-2015 11:02
Total Aliphatic Fraction	**77.0**	n	**6.0**	**12**	**mg/Kg-dry**	1	19-Aug-2015 11:02
Aliphatics Relative % Distribution	**100**	n	**0**	**0**	**%-dry**	1	19-Aug-2015 11:02
Aromatics >nC7 to nC8	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 09:56
Aromatics >nC8 to nC10	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 09:56
Aromatics >nC10 to nC12	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 09:56
Aromatics >nC12 to nC16	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 09:56
Aromatics >nC16 to nC21	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 09:56
Aromatics >nC21 to nC35	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 09:56
Total Aromatic Fraction	U	n	6.0	12	mg/Kg-dry	1	19-Aug-2015 09:56
Aromatics Relative % Distribution	U	n	0	0	%-dry	1	19-Aug-2015 09:56
Total Petroleum Hydrocarbons	**77**	n	**19**	**60**	**mg/Kg-dry**	1	19-Aug-2015 11:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: HA-1 (1-3')
Collection Date: 04-Aug-2015 08:20

ANALYTICAL REPORT
WorkOrder:HS15080177
Lab ID:HS15080177-02
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**18.0**		**0.0100**	**0.0100**	**wt%**	1	21-Aug-2015 12:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT/VOLUME LOG

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

Batch ID: 443 **Method:** VOLATILES BY SW8260C

SampID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS15080177-01	1	5	5	1	Bulk (5030B)

Batch ID: 95937 **Method:** TEXAS TPH BY TX1005 **Prep:** TX 1005_S PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15080177-01	1	10.04	10	0.996

Batch ID: 95999 **Method:** ORGANOCHLORINE PESTICIDES BY SW8081B **Prep:** PESTPR_MW

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15080177-01	1	15.01	5	0.3331

Batch ID: 96212 **Method:** LOW-LEVEL SEMIVOLATILES **Prep:** 3541_B_LOW

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15080177-01	1	30.15	4	0.1327
HS15080177-02	1	30.08	1	0.03324

Batch ID: 96324 **Method:** PETROLEUM HYDROCARBONS BY TX1006 **Prep:** TX 1006_S PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15080177-01	1	1	10	0.996
HS15080177-02	1	1	10	0.9775

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 95937	**Test Name :** TEXAS TPH BY TX1005			**Matrix:** Soil		
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50		06 Aug 2015 09:41	06 Aug 2015 21:31	100
Batch ID 95999	**Test Name :** ORGANOCHLORINE PESTICIDES BY SW8081B			**Matrix:** Soil		
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50		07 Aug 2015 14:37	11 Aug 2015 14:24	100
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50		07 Aug 2015 14:37	11 Aug 2015 14:11	50
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50		07 Aug 2015 14:37	07 Aug 2015 22:49	1
Batch ID 95999a	**Test Name :** MISCELLANEOUS PESTICIDES BY SW8081B			**Matrix:** Soil		
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50		07 Aug 2015 14:37	11 Aug 2015 14:24	100
Batch ID 96212	**Test Name :** LOW-LEVEL SEMIVOLATILES			**Matrix:** Soil		
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50		14 Aug 2015 11:41	14 Aug 2015 18:54	10
HS15080177-02	HA-1 (1-3')	04 Aug 2015 08:20		14 Aug 2015 11:41	14 Aug 2015 18:34	1
Batch ID 96324	**Test Name :** PETROLEUM HYDROCARBONS BY TX1006			**Matrix:** Soil		
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50		14 Aug 2015 13:20	19 Aug 2015 10:29	100
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50		14 Aug 2015 13:20	19 Aug 2015 09:24	100
HS15080177-02	HA-1 (1-3')	04 Aug 2015 08:20		14 Aug 2015 13:20	19 Aug 2015 11:02	1
HS15080177-02	HA-1 (1-3')	04 Aug 2015 08:20		14 Aug 2015 13:20	19 Aug 2015 09:56	1
Batch ID R259176	**Test Name :** VOLATILES BY SW8260C			**Matrix:** Soil		
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50			06 Aug 2015 22:59	1
Batch ID R259310	**Test Name :** MOISTURE			**Matrix:** Soil		
HS15080177-01	HA-1 (0-0.5')	04 Aug 2015 07:50			10 Aug 2015 12:06	1
Batch ID R259944	**Test Name :** MOISTURE			**Matrix:** Soil		
HS15080177-02	HA-1 (1-3')	04 Aug 2015 08:20			21 Aug 2015 12:13	1

WorkOrder: HS15080177
InstrumentID: ECD_11
Test Code: 8081_S
Test Number: SW8081
Test Name: Organochlorine Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	4,4´-DDD	72-54-8	0.00083	0.00083	0.00050	0.0033
A	4,4´-DDE	72-55-9	0.00083	0.00080	0.00050	0.0033
A	4,4´-DDT	50-29-3	0.00083	0.00078	0.00050	0.0033
A	Aldrin	309-00-2	0.00042	0.00038	0.00030	0.0017
A	alpha-BHC	319-84-6	0.00042	0.00042	0.00030	0.0017
A	beta-BHC	319-85-7	0.00042	0.00052	0.00030	0.0017
A	Chlordane	57-74-9	0.0083	0.0076	0.0020	0.017
A	delta-BHC	319-86-8	0.00042	0.00024	0.00020	0.0017
A	Dieldrin	60-57-1	0.00083	0.00080	0.00050	0.0033
A	Endosulfan I	959-98-8	0.00042	0.00042	0.00030	0.0017
A	Endosulfan II	33213-65-9	0.00083	0.00084	0.00060	0.0033
A	Endosulfan sulfate	1031-07-8	0.00083	0.00079	0.00060	0.0033
A	Endrin	72-20-8	0.00083	0.00077	0.00060	0.0033
A	Endrin aldehyde	7421-93-4	0.00083	0.00092	0.00060	0.0033
A	Endrin ketone	53494-70-5	0.00083	0.00097	0.00060	0.0033
A	gamma-BHC	58-89-9	0.00042	0.00041	0.00020	0.0017
A	Heptachlor	76-44-8	0.00042	0.00023	0.00030	0.0017
A	Heptachlor epoxide	1024-57-3	0.00042	0.00042	0.00030	0.0017
A	Methoxychlor	72-43-5	0.0083	0.0055	0.0034	0.017
A	Toxaphene	8001-35-2	0	0	0.0048	0.017
S	Decachlorobiphenyl	2051-24-3	0	0	0	0
S	Tetrachloro-m-xylene	877-09-8	0	0	0	0

WorkOrder: HS15080177
InstrumentID: ECD_11
Test Code: 8081-MISC._S
Test Number: SW8081
Test Name: Miscellaneous Pesticides by

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	alpha-Chlordane	5103-71-9	0.00042	0.00042	0.00020	0.0017
A	gamma-Chlordane	5566-34-7	0.00042	0.00040	0.00020	0.0017

WorkOrder: HS15080177
InstrumentID: FID-11
Test Code: TX1005_S_REV3
Test Number: TX1005
Test Name: Texas TPH by TX1005

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	nC6 to nC12	TPHGRO	25	53	10	50
A	>nC12 to nC28	TPHDRO	25	23	10	50
A	>nC28 to nC35	10W40MOTOROIL	25	23	10	50
A	Total Petroleum Hydrocarbon	TPH	50	76	10	50
S	2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Trifluoromethyl benzene	98-08-8	0	0	0	0

WorkOrder: HS15080177
InstrumentID: FID-12
Test Code: TX1006_S
Test Number: TX1006
Test Name: Petroleum Hydrocarbons by

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Aliphatics nC6	PHC6ALIP	0	0	5.0	10
A	Aliphatics >nC6 to nC8	PHCG68ALIP	0	0	5.0	10
A	Aliphatics >nC8 to nC10	PHCG810ALIP	0	0	5.0	10
A	Aliphatics >nC10 to nC12	PHCG1012ALIP	0	0	5.0	10
A	Aliphatics >nC12 to nC16	PHCG1216ALIP	0	0	5.0	10
A	Aliphatics >nC16 to nC21	PHCG1621ALIP	0	0	5.0	10
A	Aliphatics >nC21 to nC35	PHCG2135ALIP	0	0	5.0	10
A	Total Aliphatic Fraction	TOTALIPFRACT	0	0	5.0	10
A	Aliphatics Relative % Distribution	ALPRELPERDIST	0	0	0	0
A	Aromatics >nC7 to nC8	PHCG78AROM	0	0	5.0	10
A	Aromatics >nC8 to nC10	PHCG810AROM	0	0	5.0	10
A	Aromatics >nC10 to nC12	PHCG1012AROM	0	0	5.0	10
A	Aromatics >nC12 to nC16	PHCG1216AROM	0	0	5.0	10
A	Aromatics >nC16 to nC21	PHCG1621AROM	0	0	5.0	10
A	Aromatics >nC21 to nC35	PHCG2135AROM	0	0	5.0	10
A	Total Aromatic Fraction	TOTAROFRACT	0	0	5.0	10
A	Aromatics Relative % Distribution	ARORELPERCDIST	0	0	0	0
A	Total Petroleum Hydrocarbons	PHCG635AROMALIP	0	0	16	50

WorkOrder: HS15080177
InstrumentID: SV-6
Test Code: 8270_LOW_S
Test Number: SW8270
Test Name: Low-Level Semivolatiles

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Acenaphthene	83-32-9	0.0017	0.0015	0.0018	0.0033
A	Acenaphthylene	208-96-8	0.0017	0.0015	0.0010	0.0033
A	Anthracene	120-12-7	0.0017	0.0014	0.00050	0.0033
A	Benz(a)anthracene	56-55-3	0.0017	0.0017	0.0016	0.0033
A	Benzo(a)pyrene	50-32-8	0.0017	0.0013	0.0010	0.0033
A	Benzo(b)fluoranthene	205-99-2	0.0017	0.0014	0.0012	0.0033
A	Benzo(g,h,i)perylene	191-24-2	0.0017	0.0014	0.00070	0.0033
A	Benzo(k)fluoranthene	207-08-9	0.0017	0.0013	0.00090	0.0033
A	Chrysene	218-01-9	0.0017	0.0020	0.00080	0.0033
A	Dibenz(a,h)anthracene	53-70-3	0.0017	0.0010	0.0016	0.0033
A	Fluoranthene	206-44-0	0.0017	0.0014	0.0011	0.0033
A	Fluorene	86-73-7	0.0017	0.0015	0.0011	0.0033
A	Indeno(1,2,3-cd)pyrene	193-39-5	0.0017	0.00092	0.0021	0.0033
A	Naphthalene	91-20-3	0.0017	0.0019	0.00060	0.0033
A	Phenanthrene	85-01-8	0.0017	0.0016	0.0015	0.0033
A	Pyrene	129-00-0	0.0017	0.0016	0.00060	0.0033
S	2-Fluorobiphenyl	321-60-8	0	0	0	0
S	4-Terphenyl-d14	1718-51-0	0	0	0	0
S	Nitrobenzene-d5	4165-60-0	0	0	0	0

WorkOrder: HS15080177
InstrumentID: VOA5
Test Code: 8260_S
Test Number: SW8260
Test Name: Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,1,1-Trichloroethane	71-55-6	0.0012	0.00083	0.00050	0.0050
A	1,1,2,2-Tetrachloroethane	79-34-5	0.0012	0.0011	0.00080	0.0050
A	1,1,2-Trichlor-1,2,2-trifluoroethane	76-13-1	0.0012	0.0027	0.00070	0.0050
A	1,1,2-Trichloroethane	79-00-5	0.0012	0.00097	0.00050	0.0050
A	1,1-Dichloroethane	75-34-3	0.0012	0.0011	0.00050	0.0050
A	1,1-Dichloroethene	75-35-4	0.0012	0.00080	0.00050	0.0050
A	1,2,4-Trichlorobenzene	120-82-1	0.0012	0.0012	0.0011	0.0050
A	1,2-Dibromo-3-chloropropane	96-12-8	0.0012	0.0012	0.0016	0.0050
A	1,2-Dibromoethane	106-93-4	0.0012	0.0011	0.00050	0.0050
A	1,2-Dichlorobenzene	95-50-1	0.0012	0.0011	0.0010	0.0050
A	1,2-Dichloroethane	107-06-2	0.0012	0.0012	0.00060	0.0050
A	1,2-Dichloropropane	78-87-5	0.0012	0.0010	0.00080	0.0050
A	1,3-Dichlorobenzene	541-73-1	0.0012	0.0010	0.0011	0.0050
A	1,4-Dichlorobenzene	106-46-7	0.0012	0.0011	0.0010	0.0050
A	2-Butanone	78-93-3	0.0025	0.0026	0.0013	0.010
A	2-Hexanone	591-78-6	0.0025	0.0023	0.0014	0.010
A	4-Methyl-2-pentanone	108-10-1	0.0025	0.0020	0.0020	0.010
A	Acetone	67-64-1	0.0025	0.0028	0.0031	0.020
A	Benzene	71-43-2	0.0012	0.0010	0.00050	0.0050
A	Bromodichloromethane	75-27-4	0.0012	0.00096	0.00050	0.0050
A	Bromoform	75-25-2	0.0012	0.0011	0.00060	0.0050
A	Bromomethane	74-83-9	0.0012	0.0018	0.0010	0.010
A	Carbon disulfide	75-15-0	0.0025	0.0017	0.00060	0.010
A	Carbon tetrachloride	56-23-5	0.0012	0.0037	0.00060	0.0050
A	Chlorobenzene	108-90-7	0.0012	0.0011	0.00060	0.0050
A	Chloroethane	75-00-3	0.0012	0.00098	0.00080	0.010
A	Chloroform	67-66-3	0.0012	0.0011	0.00050	0.0050
A	Chloromethane	74-87-3	0.0012	0.0012	0.00050	0.010
A	cis-1,2-Dichloroethene	156-59-2	0.0012	0.0011	0.00080	0.0050
A	cis-1,3-Dichloropropene	10061-01-5	0.0012	0.00090	0.00050	0.0050
A	Cyclohexane	110-82-7	0.0012	0.0027	0.0010	0.0050
A	Dibromochloromethane	124-48-1	0.0012	0.00099	0.00050	0.0050
A	Dichlorodifluoromethane	75-71-8	0.0012	0.0024	0.00070	0.0050
A	Ethylbenzene	100-41-4	0.0012	0.00096	0.00070	0.0050
A	Isopropylbenzene	98-82-8	0.0012	0.00087	0.00090	0.0050
A	m,p-Xylene	179601-23-1	0.0025	0.0021	0.0016	0.010
A	Methyl acetate	79-20-9	0.0012	0.0011	0.00070	0.0050
A	Methyl tert-butyl ether	1634-04-4	0.0012	0.0011	0.00050	0.0050
A	Methylcyclohexane	108-87-2	0.0012	0.0027	0.0012	0.0050
A	Methylene chloride	75-09-2	0.0012	0.0018	0.0010	0.010
A	o-Xylene	95-47-6	0.0012	0.0010	0.0010	0.0050

WorkOrder: HS15080177
InstrumentID: VOA5
Test Code: 8260_S
Test Number: SW8260
Test Name: Volatiles by SW8260C

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Styrene	100-42-5	0.0012	0.00097	0.00070	0.0050
A	Tetrachloroethene	127-18-4	0.0012	0.00079	0.00070	0.0050
A	Toluene	108-88-3	0.0012	0.0018	0.00060	0.0050
A	trans-1,2-Dichloroethene	156-60-5	0.0012	0.0010	0.00050	0.0050
A	trans-1,3-Dichloropropene	10061-02-6	0.0012	0.0027	0.00060	0.0050
A	Trichloroethene	79-01-6	0.0012	0.00087	0.00060	0.0050
A	Trichlorofluoromethane	75-69-4	0.0012	0.0028	0.00050	0.0050
A	Vinyl chloride	75-01-4	0.0012	0.00088	0.00080	0.0020
A	Xylenes, Total	1330-20-7	0.0038	0.0031	0.0024	0.010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0
S	4-Bromofluorobenzene	460-00-4	0	0	0	0
S	Dibromofluoromethane	1868-53-7	0	0	0	0
S	Toluene-d8	2037-26-5	0	0	0	0

WorkOrder: HS15080177
InstrumentID: Balance1
Test Code: MOIST_SW3550
Test Number: SW3550
Test Name: Moisture

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** wt%

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Percent Moisture	MOIST	0	0	0.0100	0.0100

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 95999 **Instrument: ECD_11** **Method: SW8081**

MBLK Sample ID: **MBLK-95999** Units: **ug/Kg** Analysis Date: **07-Aug-2015 22:23**
Client ID: Run ID: **ECD_11_259406** SeqNo: **3385434** PrepDate: **07-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	3.3								
4,4´-DDE	U	3.3								
4,4´-DDT	U	3.3								
Aldrin	U	1.7								
alpha-BHC	U	1.7								
beta-BHC	U	1.7								
Chlordane	U	17								
delta-BHC	U	1.7								
Dieldrin	U	3.3								
Endosulfan I	U	1.7								
Endosulfan II	U	3.3								
Endosulfan sulfate	U	3.3								
Endrin	U	3.3								
Endrin aldehyde	U	3.3								
Endrin ketone	U	3.3								
gamma-BHC	U	1.7								
Heptachlor	U	1.7								
Heptachlor epoxide	U	1.7								
Methoxychlor	U	17								
Toxaphene	U	17								
Surr: Decachlorobiphenyl	*6.755*	*0*	*6.667*	*0*	*101*	*59 - 144*				
Surr: Tetrachloro-m-xylene	*6.025*	*0*	*6.667*	*0*	*90.4*	*56.9 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 95999 **Instrument: ECD_11** **Method: SW8081**

LCS Sample ID: **LCS-95999** Units: **ug/Kg** Analysis Date: **07-Aug-2015 22:36**
Client ID: Run ID: **ECD_11_259406** SeqNo: **3385435** PrepDate: **07-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	15.54	3.3	16.67	0	93.2	53 - 138				
4,4´-DDE	16.67	3.3	16.67	0	100	57 - 136				
4,4´-DDT	16.24	3.3	16.67	0	97.4	53 - 139				
Aldrin	5.109	1.7	8.333	0	61.3	52 - 130				
alpha-BHC	4.531	1.7	8.333	0	54.4	52 - 130				
beta-BHC	6.772	1.7	8.333	0	81.3	62 - 130				
delta-BHC	5.362	1.7	8.333	0	64.3	41 - 137				
Dieldrin	14.39	3.3	16.67	0	86.3	54 - 138				
Endosulfan I	7.599	1.7	8.333	0	91.2	55 - 132				P
Endosulfan II	15.22	3.3	16.67	0	91.3	59 - 134				
Endosulfan sulfate	15.05	3.3	16.67	0	90.3	54 - 141				
Endrin	16.36	3.3	16.67	0	98.2	60 - 157				
Endrin aldehyde	12.26	3.3	16.67	0	73.5	56 - 146				
Endrin ketone	15.83	3.3	16.67	0	95.0	56 - 153				
gamma-BHC	5.56	1.7	8.333	0	66.7	52 - 133				
Heptachlor	6.344	1.7	8.333	0	76.1	54 - 134				
Heptachlor epoxide	6.422	1.7	8.333	0	77.1	58 - 130				
Methoxychlor	91.88	17	83.3	0	110	60 - 140				
Surr: Decachlorobiphenyl	*6.525*	*0*	*6.667*	*0*	*97.9*	*59 - 144*				
Surr: Tetrachloro-m-xylene	*3.848*	*0*	*6.667*	*0*	*57.7*	*56.9 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 95999 **Instrument: ECD_11** **Method: SW8081**

MS Sample ID: **HS15080177-01MS** Units: **ug/Kg** Analysis Date: **07-Aug-2015 23:03**
Client ID: **HA-1 (0-0.5')** Run ID: **ECD_11_259406** SeqNo: **3385437** PrepDate: **07-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	301.6	3.3	16.62	201.6	602	53 - 138				SEOP
4,4´-DDE	272.6	3.3	16.62	168	629	57 - 136				SEOP
4,4´-DDT	33.99	3.3	16.62	49.96	-96.1	53 - 139				SP
Aldrin	19.3	1.7	8.311	16.07	38.9	52 - 130				SP
alpha-BHC	7.755	1.7	8.311	3.628	49.7	52 - 130				SP
beta-BHC	8.745	1.7	8.311	2.825	71.2	62 - 130				P
Chlordane	5743	17	83.08	0	6910	50 - 150				SE
delta-BHC	10.65	1.7	8.311	1.096	115	41 - 137				P
Dieldrin	79.03	3.3	16.62	44.35	209	54 - 138				SE
Endosulfan I	221.6	1.7	8.311	17.18	2460	55 - 132				SEP
Endosulfan II	82.91	3.3	16.62	59.91	138	59 - 134				SEP
Endosulfan sulfate	15.2	3.3	16.62	4.97	61.5	54 - 141				
Endrin	42.08	3.3	16.62	19.6	135	60 - 157				P
Endrin aldehyde	29.79	3.3	16.62	15.83	84.0	56 - 146				P
Endrin ketone	27.27	3.3	16.62	9.666	106	56 - 153				
gamma-BHC	53.88	1.7	8.311	4.593	593	52 - 133				SEP
Heptachlor	167.7	1.7	8.311	65.14	1230	54 - 134				SEO
Heptachlor epoxide	225.5	1.7	8.311	113.7	1340	58 - 130				SEO
Methoxychlor	39.37	17	83.08	8.767	36.8	60 - 140				SP
Toxaphene	638.3	17	83.08	0	768	50 - 150				SE
Surr: Decachlorobiphenyl	*22.57*	*0*	*6.649*	*0*	*340*	*59 - 144*				S
Surr: Tetrachloro-m-xylene	*6.549*	*0*	*6.649*	*0*	*98.5*	*56.9 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 95999 **Instrument: ECD_11** **Method: SW8081**

MSD Sample ID: **HS15080177-01MSD** Units: **ug/Kg** Analysis Date: **07-Aug-2015 23:16**
Client ID: **HA-1 (0-0.5')** Run ID: **ECD_11_259406** SeqNo: **3385438** PrepDate: **07-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
4,4´-DDD	285.4	3.3	16.64	201.6	504	53 - 138	301.6	5.55	30	SEOP
4,4´-DDE	267.4	3.3	16.64	168	597	57 - 136	272.6	1.93	30	SEOP
4,4´-DDT	36.37	3.3	16.64	49.96	-81.7	53 - 139	33.99	6.78	30	SP
Aldrin	19.72	1.7	8.322	16.07	43.9	52 - 130	19.3	2.19	30	SP
alpha-BHC	8.547	1.7	8.322	3.628	59.1	52 - 130	7.755	9.72	30	P
beta-BHC	9.251	1.7	8.322	2.825	77.2	62 - 130	8.745	5.62	30	P
Chlordane	5574	17	83.19	0	6700	50 - 150	5743	2.98	30	SE
delta-BHC	7.226	1.7	8.322	1.096	73.7	41 - 137	10.65	38.3	30	R
Dieldrin	81.02	3.3	16.64	44.35	220	54 - 138	79.03	2.48	30	SE
Endosulfan I	215.3	1.7	8.322	17.18	2380	55 - 132	221.6	2.88	30	SEP
Endosulfan II	87.27	3.3	16.64	59.91	164	59 - 134	82.91	5.12	30	SEP
Endosulfan sulfate	20.75	3.3	16.64	4.97	94.8	54 - 141	15.2	30.9	30	R
Endrin	43.16	3.3	16.64	19.6	141	60 - 157	42.08	2.51	30	P
Endrin aldehyde	34.69	3.3	16.64	15.83	113	56 - 146	29.79	15.2	30	P
Endrin ketone	44.09	3.3	16.64	9.666	207	56 - 153	27.27	47.1	30	SR
gamma-BHC	54.24	1.7	8.322	4.593	597	52 - 133	53.88	0.657	30	SEP
Heptachlor	164.5	1.7	8.322	65.14	1190	54 - 134	167.7	1.95	30	SEO
Heptachlor epoxide	220.1	1.7	8.322	113.7	1280	58 - 130	225.5	2.43	30	SEO
Methoxychlor	62.18	17	83.19	8.767	64.2	60 - 140	39.37	44.9	30	RP
Toxaphene	867.3	17	83.19	0	1040	50 - 150	638.3	30.4	30	SRE
Surr: Decachlorobiphenyl	*35.63*	*0*	*6.658*	*0*	*535*	*59 - 144*	*22.57*	*44.9*	*30*	SR
Surr: Tetrachloro-m-xylene	*4.537*	*0*	*6.658*	*0*	*68.1*	*56.9 - 130*	*6.549*	*36.3*	*30*	R

The following samples were anayzed in this batch: HS15080177-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 95999a **Instrument: ECD_11** **Method: SW8081**

MBLK Sample ID: **MBLK-95999** Units: **ug/Kg** Analysis Date: **07-Aug-2015 22:23**
Client ID: Run ID: **ECD_11_259406** SeqNo: **3385429** PrepDate: **07-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	U	1.7								
gamma-Chlordane	U	1.7								

LCS Sample ID: **LCS-95999** Units: **ug/Kg** Analysis Date: **07-Aug-2015 22:36**
Client ID: Run ID: **ECD_11_259406** SeqNo: **3385430** PrepDate: **07-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	6.933	1.7	8.333	0	83.2	55 - 132				
gamma-Chlordane	6.759	1.7	8.333	0	81.1	60 - 129				

MS Sample ID: **HS15080177-01MS** Units: **ug/Kg** Analysis Date: **07-Aug-2015 23:03**
Client ID: **HA-1 (0-0.5')** Run ID: **ECD_11_259406** SeqNo: **3385432** PrepDate: **07-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	1538	1.7	8.311	724.3	9790	55 - 132				SEO
gamma-Chlordane	1348	1.7	8.311	1049	3590	60 - 129				SEOP

MSD Sample ID: **HS15080177-01MSD** Units: **ug/Kg** Analysis Date: **07-Aug-2015 23:16**
Client ID: **HA-1 (0-0.5')** Run ID: **ECD_11_259406** SeqNo: **3385433** PrepDate: **07-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
alpha-Chlordane	1510	1.7	8.322	724.3	9450	55 - 132	1538	1.82	30	SEO
gamma-Chlordane	1361	1.7	8.322	1049	3740	60 - 129	1348	0.956	30	SEOP

The following samples were anayzed in this batch: HS15080177-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 95937 **Instrument: FID-11** **Method: TX1005**

MBLK Sample ID: **MBLK-95937** Units: **mg/Kg** Analysis Date: **06-Aug-2015 11:53**
Client ID: Run ID: **FID-11_259203** SeqNo: **3381799** PrepDate: **06-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
Surr: 2-Fluorobiphenyl	*31.58*	*0*	*25*	*0*	*126*	*70 - 130*				
Surr: Trifluoromethyl benzene	*30.98*	*0*	*25*	*0*	*124*	*70 - 130*				

LCS Sample ID: **LCS-95937** Units: **mg/Kg** Analysis Date: **06-Aug-2015 12:24**
Client ID: Run ID: **FID-11_259203** SeqNo: **3381800** PrepDate: **06-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	243	50	250	0	97.2	75 - 125				
>nC12 to nC28	212.6	50	250	0	85.0	75 - 125				
Surr: 2-Fluorobiphenyl	*29.54*	*0*	*25*	*0*	*118*	*70 - 130*				
Surr: Trifluoromethyl benzene	*24.95*	*0*	*25*	*0*	*99.8*	*70 - 130*				

LCSD Sample ID: **LCSD-95937** Units: **mg/Kg** Analysis Date: **06-Aug-2015 12:54**
Client ID: Run ID: **FID-11_259203** SeqNo: **3381801** PrepDate: **06-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	261.2	50	250	0	104	75 - 125	243	7.25	20	
>nC12 to nC28	223.7	50	250	0	89.5	75 - 125	212.6	5.1	20	
Surr: 2-Fluorobiphenyl	*26.96*	*0*	*25*	*0*	*108*	*70 - 130*	*29.54*	*9.13*	*20*	
Surr: Trifluoromethyl benzene	*24.86*	*0*	*25*	*0*	*99.4*	*70 - 130*	*24.95*	*0.365*	*20*	

MS Sample ID: **HS15080158-01MS** Units: **mg/Kg** Analysis Date: **06-Aug-2015 13:54**
Client ID: Run ID: **FID-11_259203** SeqNo: **3381803** PrepDate: **06-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	270.5	50	249.8	0	108	75 - 125				
>nC12 to nC28	232	50	249.8	0	92.9	75 - 125				
Surr: 2-Fluorobiphenyl	*25.02*	*0*	*24.98*	*0*	*100*	*70 - 130*				
Surr: Trifluoromethyl benzene	*22.68*	*0*	*24.98*	*0*	*90.8*	*70 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 95937 **Instrument: FID-11** **Method: TX1005**

MSD Sample ID: **HS15080158-01MSD** Units: **mg/Kg** Analysis Date: **06-Aug-2015 14:25**
Client ID: Run ID: **FID-11_259203** SeqNo: **3381804** PrepDate: **06-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	269.8	50	248.5	0	109	75 - 125	270.5	0.291	20	
>nC12 to nC28	233.2	50	248.5	0	93.9	75 - 125	232	0.55	20	
Surr: 2-Fluorobiphenyl	*24.99*	*0*	*24.85*	*0*	*101*	*70 - 130*	*25.02*	*0.126*	*20*	
Surr: Trifluoromethyl benzene	*22.66*	*0*	*24.85*	*0*	*91.2*	*70 - 130*	*22.68*	*0.0853*	*20*	

The following samples were anayzed in this batch: HS15080177-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 96324 **Instrument: FID-12** **Method: TX1006**

MBLK Sample ID: **MBLK-96324** Units: **mg/Kg** Analysis Date: **18-Aug-2015 03:06**
Client ID: Run ID: **FID-12_259816** SeqNo: **3393737** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aliphatics nC6	U	10								
Aliphatics >nC6 to nC8	U	10								
Aliphatics >nC8 to nC10	U	10								
Aliphatics >nC10 to nC12	U	10								
Aliphatics >nC12 to nC16	U	10								
Aliphatics >nC16 to nC21	U	10								
Aliphatics >nC21 to nC35	U	10								
Total Aliphatic Fraction	U	10								
Aliphatics Relative % Distribution	U	0								
Total Petroleum Hydrocarbons	U	50								

MBLK Sample ID: **MBLK-96324** Units: **mg/Kg** Analysis Date: **18-Aug-2015 03:06**
Client ID: Run ID: **FID-12_259816** SeqNo: **3393885** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aromatics >nC7 to nC8	U	10								
Aromatics >nC8 to nC10	U	10								
Aromatics >nC10 to nC12	U	10								
Aromatics >nC12 to nC16	U	10								
Aromatics >nC16 to nC21	U	10								
Aromatics >nC21 to nC35	U	10								
Total Aromatic Fraction	U	10								
Aromatics Relative % Distribution	U	0								

LCS Sample ID: **LCS-96324** Units: **mg/Kg** Analysis Date: **18-Aug-2015 03:38**
Client ID: Run ID: **FID-12_259816** SeqNo: **3393738** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Petroleum Hydrocarbons	310.8	50	500	0	62.2	60 - 140				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 96324 **Instrument: FID-12** **Method: TX1006**

LCSD Sample ID: **LCSD-96324** Units: **mg/Kg** Analysis Date: **18-Aug-2015 04:10**
Client ID: Run ID: **FID-12_259816** SeqNo: **3393739** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Petroleum Hydrocarbons	352.6	50	500	0	70.5	60 - 140	310.8	12.6	30	

MS Sample ID: **HS15080251-18MS** Units: **mg/Kg** Analysis Date: **19-Aug-2015 09:24**
Client ID: Run ID: **FID-12_259816** SeqNo: **3393758** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Petroleum Hydrocarbons	458.4	50	498	0	92.0	60 - 140				

MSD Sample ID: **HS15080251-18MSD** Units: **mg/Kg** Analysis Date: **19-Aug-2015 09:56**
Client ID: Run ID: **FID-12_259816** SeqNo: **3393759** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Petroleum Hydrocarbons	445.8	50	499	0	89.3	60 - 140	458.4	2.78	30	

The following samples were anayzed in this batch: HS15080177-01 HS15080177-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 96212 **Instrument: SV-6** **Method: SW8270**

MBLK Sample ID: **MBLK-96212** Units: **ug/Kg** Analysis Date: **14-Aug-2015 13:39**
Client ID: Run ID: **SV-6_259634** SeqNo: **3390076** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	U	3.3								
Acenaphthylene	U	3.3								
Anthracene	U	3.3								
Benz(a)anthracene	U	3.3								
Benzo(a)pyrene	U	3.3								
Benzo(b)fluoranthene	U	3.3								
Benzo(g,h,i)perylene	U	3.3								
Benzo(k)fluoranthene	U	3.3								
Chrysene	U	3.3								
Dibenz(a,h)anthracene	U	3.3								
Fluoranthene	U	3.3								
Fluorene	U	3.3								
Indeno(1,2,3-cd)pyrene	U	3.3								
Naphthalene	U	3.3								
Phenanthrene	U	3.3								
Pyrene	U	3.3								
Surr: 2-Fluorobiphenyl	*134.1*	*0*	*167*	*0*	*80.3*	*43 - 125*				
Surr: 4-Terphenyl-d14	*122.8*	*0*	*167*	*0*	*73.5*	*32 - 125*				
Surr: Nitrobenzene-d5	*113.2*	*0*	*167*	*0*	*67.8*	*37 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 96212 **Instrument: SV-6** **Method: SW8270**

LCS Sample ID: **LCS-96212** Units: **ug/Kg** Analysis Date: **14-Aug-2015 13:58**
Client ID: Run ID: **SV-6_259634** SeqNo: **3390067** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	134.2	3.3	167	0	80.4	50 - 120				
Acenaphthylene	136.4	3.3	167	0	81.7	50 - 120				
Anthracene	132	3.3	167	0	79.0	50 - 123				
Benz(a)anthracene	130.8	3.3	167	0	78.3	50 - 131				
Benzo(a)pyrene	128.8	3.3	167	0	77.2	50 - 130				
Benzo(b)fluoranthene	129.7	3.3	167	0	77.7	50 - 137				
Benzo(g,h,i)perylene	127	3.3	167	0	76.1	50 - 130				
Benzo(k)fluoranthene	119	3.3	167	0	71.3	50 - 143				
Chrysene	122.9	3.3	167	0	73.6	50 - 130				
Dibenz(a,h)anthracene	138.3	3.3	167	0	82.8	50 - 130				
Fluoranthene	130.2	3.3	167	0	77.9	50 - 131				
Fluorene	138	3.3	167	0	82.6	50 - 125				
Indeno(1,2,3-cd)pyrene	136.8	3.3	167	0	81.9	45 - 139				
Naphthalene	123.1	3.3	167	0	73.7	50 - 125				
Phenanthrene	127.8	3.3	167	0	76.5	50 - 125				
Pyrene	131.2	3.3	167	0	78.6	45 - 130				
Surr: 2-Fluorobiphenyl	*125.1*	*0*	*167*	*0*	*74.9*	*43 - 125*				
Surr: 4-Terphenyl-d14	*126*	*0*	*167*	*0*	*75.5*	*32 - 125*				
Surr: Nitrobenzene-d5	*111.5*	*0*	*167*	*0*	*66.8*	*37 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 96212 **Instrument: SV-6** **Method: SW8270**

MS Sample ID: **HS15080472-13MS** Units: **ug/Kg** Analysis Date: **14-Aug-2015 16:32**
Client ID: Run ID: **SV-6_259634** SeqNo: **3390071** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	456.1	3.3	166.9	240.7	129	50 - 120				SE
Acenaphthylene	445.1	3.3	166.9	226.8	131	50 - 120				SE
Anthracene	384.1	3.3	166.9	126.6	154	50 - 123				SE
Benz(a)anthracene	152.8	3.3	166.9	17.31	81.2	50 - 131				
Benzo(a)pyrene	142.5	3.3	166.9	13.88	77.1	50 - 130				
Benzo(b)fluoranthene	140.3	3.3	166.9	11.82	77.0	50 - 137				
Benzo(g,h,i)perylene	138.7	3.3	166.9	14.97	74.1	50 - 130				
Benzo(k)fluoranthene	110.9	3.3	166.9	4.35	63.8	50 - 143				
Chrysene	153.2	3.3	166.9	20.26	79.6	50 - 130				
Dibenz(a,h)anthracene	121.9	3.3	166.9	1.941	71.9	50 - 130				
Fluoranthene	241.1	3.3	166.9	86.5	92.6	50 - 131				
Fluorene	545.4	3.3	166.9	317.9	136	50 - 125				SE
Indeno(1,2,3-cd)pyrene	143.3	3.3	166.9	11.05	79.2	45 - 139				
Naphthalene	1619	3.3	166.9	1160	275	50 - 125				SEO
Phenanthrene	1310	3.3	166.9	813.5	297	50 - 125				SEO
Pyrene	498.4	3.3	166.9	183.7	189	45 - 130				SE
Surr: 2-Fluorobiphenyl	*77.32*	*0*	*166.9*	*0*	*46.3*	*43 - 125*				
Surr: 4-Terphenyl-d14	*117.3*	*0*	*166.9*	*0*	*70.3*	*32 - 125*				
Surr: Nitrobenzene-d5	*84.9*	*0*	*166.9*	*0*	*50.9*	*37 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: 96212 **Instrument: SV-6** **Method: SW8270**

MSD Sample ID: **HS15080472-13MSD** Units: **ug/Kg** Analysis Date: **14-Aug-2015 16:51**
Client ID: Run ID: **SV-6_259634** SeqNo: **3390072** PrepDate: **14-Aug-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Acenaphthene	571	3.3	166.7	240.7	198	50 - 120	456.1	22.4	30	SE
Acenaphthylene	548.3	3.3	166.7	226.8	193	50 - 120	445.1	20.8	30	SE
Anthracene	443.8	3.3	166.7	126.6	190	50 - 123	384.1	14.4	30	SE
Benz(a)anthracene	154.3	3.3	166.7	17.31	82.2	50 - 131	152.8	0.958	30	
Benzo(a)pyrene	145.8	3.3	166.7	13.88	79.2	50 - 130	142.5	2.32	30	
Benzo(b)fluoranthene	143.6	3.3	166.7	11.82	79.0	50 - 137	140.3	2.33	30	
Benzo(g,h,i)perylene	149.7	3.3	166.7	14.97	80.8	50 - 130	138.7	7.65	30	
Benzo(k)fluoranthene	111	3.3	166.7	4.35	63.9	50 - 143	110.9	0.0685	30	
Chrysene	156.6	3.3	166.7	20.26	81.8	50 - 130	153.2	2.25	30	
Dibenz(a,h)anthracene	129.3	3.3	166.7	1.941	76.4	50 - 130	121.9	5.92	30	
Fluoranthene	381.3	3.3	166.7	86.5	177	50 - 131	241.1	45.1	30	SRE
Fluorene	927.7	3.3	166.7	317.9	366	50 - 125	545.4	51.9	30	SRE
Indeno(1,2,3-cd)pyrene	154.5	3.3	166.7	11.05	86.0	45 - 139	143.3	7.52	30	
Naphthalene	1713	3.3	166.7	1160	331	50 - 125	1619	5.63	30	SEO
Phenanthrene	1564	3.3	166.7	813.5	450	50 - 125	1310	17.7	30	SEO
Pyrene	655.1	3.3	166.7	183.7	283	45 - 130	498.4	27.2	30	SE
Surr: 2-Fluorobiphenyl	*101.1*	*0*	*166.7*	*0*	*60.6*	*43 - 125*	*77.32*	*26.6*	*30*	
Surr: 4-Terphenyl-d14	*130.9*	*0*	*166.7*	*0*	*78.5*	*32 - 125*	*117.3*	*10.9*	*30*	
Surr: Nitrobenzene-d5	*96.72*	*0*	*166.7*	*0*	*58.0*	*37 - 125*	*84.9*	*13*	*30*	

The following samples were anayzed in this batch: HS15080177-01 HS15080177-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259176 **Instrument: VOA5** **Method: SW8260**

MBLK Sample ID: **VBLKS1-080615** Units: **ug/Kg** Analysis Date: **06-Aug-2015 13:19**
Client ID: Run ID: **VOA5_259176** SeqNo: **3380878** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2,4-Trichlorobenzene	U	5.0								
1,2-Dibromo-3-chloropropane	U	5.0								
1,2-Dibromoethane	U	5.0								
1,2-Dichlorobenzene	U	5.0								
1,2-Dichloroethane	U	5.0								
1,2-Dichloropropane	U	5.0								
1,3-Dichlorobenzene	U	5.0								
1,4-Dichlorobenzene	U	5.0								
2-Butanone	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	20								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	10								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	10								
Chloroform	U	5.0								
Chloromethane	U	10								
cis-1,2-Dichloroethene	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Cyclohexane	U	5.0								
Dibromochloromethane	U	5.0								
Dichlorodifluoromethane	U	5.0								
Ethylbenzene	U	5.0								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259176 **Instrument: VOA5** **Method: SW8260**

MBLK Sample ID: **VBLKS1-080615** Units: **ug/Kg** Analysis Date: **06-Aug-2015 13:19**
Client ID: Run ID: **VOA5_259176** SeqNo: **3380878** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	U	5.0								
m,p-Xylene	U	10								
Methyl acetate	U	5.0								
Methyl tert-butyl ether	U	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	10								
o-Xylene	U	5.0								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,2-Dichloroethene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Trichlorofluoromethane	U	5.0								
Vinyl chloride	U	2.0								
Xylenes, Total	U	10								
Surr: 1,2-Dichloroethane-d4	*44.75*	*0*	*50*	*0*	*89.5*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*47.62*	*0*	*50*	*0*	*95.2*	*73 - 126*				
Surr: Dibromofluoromethane	*47.14*	*0*	*50*	*0*	*94.3*	*71 - 128*				
Surr: Toluene-d8	*49.85*	*0*	*50*	*0*	*99.7*	*73 - 127*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259176 **Instrument: VOA5** **Method: SW8260**

LCS Sample ID: **VLCSS1-080615** Units: **ug/Kg** Analysis Date: **06-Aug-2015 12:29**
Client ID: Run ID: **VOA5_259176** SeqNo: **3380877** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.74	5.0	50	0	99.5	79 - 128				
1,1,2,2-Tetrachloroethane	48.87	5.0	50	0	97.7	75 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	52.12	5.0	50	0	104	76 - 127				
1,1,2-Trichloroethane	49.11	5.0	50	0	98.2	77 - 120				
1,1-Dichloroethane	47.46	5.0	50	0	94.9	75 - 124				
1,1-Dichloroethene	49.08	5.0	50	0	98.2	76 - 128				
1,2,4-Trichlorobenzene	50.29	5.0	50	0	101	74 - 128				
1,2-Dibromo-3-chloropropane	49	5.0	50	0	98.0	66 - 129				
1,2-Dibromoethane	50.48	5.0	50	0	101	70 - 120				
1,2-Dichlorobenzene	51.01	5.0	50	0	102	75 - 120				
1,2-Dichloroethane	48.41	5.0	50	0	96.8	73 - 121				
1,2-Dichloropropane	46.42	5.0	50	0	92.8	75 - 124				
1,3-Dichlorobenzene	51.33	5.0	50	0	103	70 - 125				
1,4-Dichlorobenzene	50.59	5.0	50	0	101	77 - 120				
2-Butanone	87.25	10	100	0	87.3	65 - 130				
2-Hexanone	94.6	10	100	0	94.6	65 - 133				
4-Methyl-2-pentanone	97.38	10	100	0	97.4	69 - 130				
Acetone	95.73	20	100	0	95.7	53 - 142				
Benzene	49.12	5.0	50	0	98.2	79 - 122				
Bromodichloromethane	48.99	5.0	50	0	98.0	79 - 121				
Bromoform	50.37	5.0	50	0	101	74 - 125				
Bromomethane	50.61	10	50	0	101	68 - 131				
Carbon disulfide	97.93	10	100	0	97.9	78 - 131				
Carbon tetrachloride	53.47	5.0	50	0	107	74 - 126				
Chlorobenzene	50.18	5.0	50	0	100	79 - 120				
Chloroethane	46.51	10	50	0	93.0	74 - 126				
Chloroform	46.22	5.0	50	0	92.4	78 - 122				
Chloromethane	46.63	10	50	0	93.3	69 - 129				
cis-1,2-Dichloroethene	47.56	5.0	50	0	95.1	78 - 122				
cis-1,3-Dichloropropene	49.35	5.0	50	0	98.7	77 - 123				
Cyclohexane	48.95	5.0	50	0	97.9	74 - 126				
Dibromochloromethane	50.54	5.0	50	0	101	78 - 122				
Dichlorodifluoromethane	51.41	5.0	50	0	103	57 - 140				
Ethylbenzene	49.97	5.0	50	0	99.9	80 - 122				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259176 **Instrument: VOA5** **Method: SW8260**

LCS Sample ID: **VLCSS1-080615** Units: **ug/Kg** Analysis Date: **06-Aug-2015 12:29**
Client ID: Run ID: **VOA5_259176** SeqNo: **3380877** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	50.92	5.0	50	0	102	72 - 127				
m,p-Xylene	99.56	10	100	0	99.6	79 - 122				
Methyl acetate	45.06	5.0	50	0	90.1	69 - 123				
Methyl tert-butyl ether	46.94	5.0	50	0	93.9	76 - 124				
Methylcyclohexane	51.78	5.0	50	0	104	77 - 127				
Methylene chloride	50.87	10	50	0	102	65 - 130				
o-Xylene	49.96	5.0	50	0	99.9	80 - 123				
Styrene	49.67	5.0	50	0	99.3	78 - 124				
Tetrachloroethene	54.73	5.0	50	0	109	70 - 130				
Toluene	46.89	5.0	50	0	93.8	79 - 120				
trans-1,2-Dichloroethene	48.97	5.0	50	0	97.9	79 - 122				
trans-1,3-Dichloropropene	49.62	5.0	50	0	99.2	77 - 120				
Trichloroethene	51.45	5.0	50	0	103	75 - 123				
Trichlorofluoromethane	50.44	5.0	50	0	101	75 - 126				
Vinyl chloride	48.39	2.0	50	0	96.8	76 - 126				
Xylenes, Total	149.5	10	150	0	99.7	80 - 120				
Surr: 1,2-Dichloroethane-d4	*48.06*	*0*	*50*	*0*	*96.1*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*47.88*	*0*	*50*	*0*	*95.8*	*73 - 126*				
Surr: Dibromofluoromethane	*48.79*	*0*	*50*	*0*	*97.6*	*71 - 128*				
Surr: Toluene-d8	*48.95*	*0*	*50*	*0*	*97.9*	*73 - 127*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259176 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS15080052-02MS** Units: **ug/Kg** Analysis Date: **06-Aug-2015 16:15**
Client ID: Run ID: **VOA5_259176** SeqNo: **3381513** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	33.82	4.8	48.5	0	69.7	79 - 128				S
1,1,2,2-Tetrachloroethane	32.67	4.8	48.5	0	67.4	75 - 123				S
1,1,2-Trichlor-1,2,2-trifluoroethane	34.62	4.8	48.5	0	71.4	76 - 127				S
1,1,2-Trichloroethane	32.91	4.8	48.5	0	67.9	77 - 120				S
1,1-Dichloroethane	32.95	4.8	48.5	0	67.9	75 - 124				S
1,1-Dichloroethene	33.58	4.8	48.5	0	69.2	76 - 128				S
1,2,4-Trichlorobenzene	31.7	4.8	48.5	0	65.4	74 - 128				S
1,2-Dibromo-3-chloropropane	30.65	4.8	48.5	0	63.2	66 - 129				S
1,2-Dibromoethane	33.21	4.8	48.5	0	68.5	70 - 120				S
1,2-Dichlorobenzene	32.84	4.8	48.5	0	67.7	75 - 120				S
1,2-Dichloroethane	32.4	4.8	48.5	0	66.8	73 - 121				S
1,2-Dichloropropane	31.88	4.8	48.5	0	65.7	75 - 124				S
1,3-Dichlorobenzene	33.21	4.8	48.5	0	68.5	70 - 125				S
1,4-Dichlorobenzene	32.92	4.8	48.5	0	67.9	77 - 120				S
2-Butanone	54.52	9.7	97	0	56.2	65 - 130				S
2-Hexanone	60.21	9.7	97	0	62.1	65 - 133				S
4-Methyl-2-pentanone	65.02	9.7	97	0	67.0	69 - 130				S
Acetone	66.8	19	97	0	68.9	53 - 142				
Benzene	33.23	4.8	48.5	0	68.5	79 - 122				S
Bromodichloromethane	32.75	4.8	48.5	0	67.5	79 - 121				S
Bromoform	32	4.8	48.5	0	66.0	74 - 125				S
Bromomethane	34.71	9.7	48.5	0	71.6	68 - 131				
Carbon disulfide	66.32	9.7	97	0	68.4	78 - 131				S
Carbon tetrachloride	34.87	4.8	48.5	0	71.9	74 - 126				S
Chlorobenzene	33.5	4.8	48.5	0	69.1	79 - 120				S
Chloroethane	32.42	9.7	48.5	0	66.8	74 - 126				S
Chloroform	32.5	4.8	48.5	0	67.0	78 - 122				S
Chloromethane	31.18	9.7	48.5	0	64.3	69 - 129				S
cis-1,2-Dichloroethene	32.96	4.8	48.5	0	68.0	78 - 122				S
cis-1,3-Dichloropropene	31.9	4.8	48.5	0	65.8	77 - 123				S
Cyclohexane	32.45	4.8	48.5	0	66.9	74 - 126				S
Dibromochloromethane	33.59	4.8	48.5	0	69.3	78 - 122				S
Dichlorodifluoromethane	34.61	4.8	48.5	0	71.4	57 - 140				
Ethylbenzene	33.4	4.8	48.5	0	68.9	80 - 122				S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259176 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS15080052-02MS** Units: **ug/Kg** Analysis Date: **06-Aug-2015 16:15**
Client ID: Run ID: **VOA5_259176** SeqNo: **3381513** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	33.71	4.8	48.5	0	69.5	72 - 127				S
m,p-Xylene	66.18	9.7	97	0	68.2	79 - 122				S
Methyl acetate	33.94	4.8	48.5	0	70.0	69 - 123				
Methyl tert-butyl ether	32.32	4.8	48.5	0	66.6	76 - 124				S
Methylcyclohexane	34.14	4.8	48.5	0	70.4	77 - 127				S
Methylene chloride	34.98	9.7	48.5	0	72.1	65 - 130				
o-Xylene	32.75	4.8	48.5	0	67.5	80 - 123				S
Styrene	33.13	4.8	48.5	0	68.3	78 - 124				S
Tetrachloroethene	26.06	4.8	48.5	0	53.7	70 - 130				S
Toluene	31.07	4.8	48.5	0	64.1	79 - 120				S
trans-1,2-Dichloroethene	32.91	4.8	48.5	0	67.9	79 - 122				S
trans-1,3-Dichloropropene	31.87	4.8	48.5	0	65.7	77 - 120				S
Trichloroethene	33.38	4.8	48.5	0	68.8	75 - 123				S
Trichlorofluoromethane	34.4	4.8	48.5	0	70.9	75 - 126				S
Vinyl chloride	33.67	1.9	48.5	0	69.4	76 - 126				S
Xylenes, Total	98.93	9.7	145.5	0	68.0	80 - 120				S
Surr: 1,2-Dichloroethane-d4	*46.55*	*0*	*48.5*	*0*	*96.0*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*46.49*	*0*	*48.5*	*0*	*95.9*	*73 - 126*				
Surr: Dibromofluoromethane	*47.53*	*0*	*48.5*	*0*	*98.0*	*71 - 128*				
Surr: Toluene-d8	*46.98*	*0*	*48.5*	*0*	*96.9*	*73 - 127*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259176 **Instrument: VOA5** **Method: SW8260**

MSD Sample ID: **HS15080052-02MSD** Units: **ug/Kg** Analysis Date: **06-Aug-2015 16:40**
Client ID: Run ID: **VOA5_259176** SeqNo: **3381514** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	39.08	4.8	48.5	0	80.6	79 - 128	33.82	14.4	30	
1,1,2,2-Tetrachloroethane	40.01	4.8	48.5	0	82.5	75 - 123	32.67	20.2	30	
1,1,2-Trichlor-1,2,2-trifluoroethane	39.22	4.8	48.5	0	80.9	76 - 127	34.62	12.5	30	
1,1,2-Trichloroethane	38.05	4.8	48.5	0	78.4	77 - 120	32.91	14.5	30	
1,1-Dichloroethane	37.65	4.8	48.5	0	77.6	75 - 124	32.95	13.3	30	
1,1-Dichloroethene	38.2	4.8	48.5	0	78.8	76 - 128	33.58	12.9	30	
1,2,4-Trichlorobenzene	37.61	4.8	48.5	0	77.5	74 - 128	31.7	17.1	30	
1,2-Dibromo-3-chloropropane	37.96	4.8	48.5	0	78.3	66 - 129	30.65	21.3	30	
1,2-Dibromoethane	38.64	4.8	48.5	0	79.7	70 - 120	33.21	15.1	30	
1,2-Dichlorobenzene	39.28	4.8	48.5	0	81.0	75 - 120	32.84	17.9	30	
1,2-Dichloroethane	37.98	4.8	48.5	0	78.3	73 - 121	32.4	15.8	30	
1,2-Dichloropropane	37.9	4.8	48.5	0	78.1	75 - 124	31.88	17.2	30	
1,3-Dichlorobenzene	38.8	4.8	48.5	0	80.0	70 - 125	33.21	15.5	30	
1,4-Dichlorobenzene	38.45	4.8	48.5	0	79.3	77 - 120	32.92	15.5	30	
2-Butanone	68.12	9.7	97	0	70.2	65 - 130	54.52	22.2	30	
2-Hexanone	77.03	9.7	97	0	79.4	65 - 133	60.21	24.5	30	
4-Methyl-2-pentanone	78.79	9.7	97	0	81.2	69 - 130	65.02	19.2	30	
Acetone	69.13	19	97	0	71.3	53 - 142	66.8	3.42	30	
Benzene	37.86	4.8	48.5	0	78.1	79 - 122	33.23	13	30	S
Bromodichloromethane	38.16	4.8	48.5	0	78.7	79 - 121	32.75	15.3	30	S
Bromoform	38.54	4.8	48.5	0	79.5	74 - 125	32	18.5	30	
Bromomethane	37.52	9.7	48.5	0	77.4	68 - 131	34.71	7.78	30	
Carbon disulfide	74.84	9.7	97	0	77.2	78 - 131	66.32	12.1	30	S
Carbon tetrachloride	40.03	4.8	48.5	0	82.5	74 - 126	34.87	13.8	30	
Chlorobenzene	38.67	4.8	48.5	0	79.7	79 - 120	33.5	14.3	30	
Chloroethane	35.63	9.7	48.5	0	73.5	74 - 126	32.42	9.43	30	S
Chloroform	36.96	4.8	48.5	0	76.2	78 - 122	32.5	12.8	30	S
Chloromethane	36.23	9.7	48.5	0	74.7	69 - 129	31.18	15	30	
cis-1,2-Dichloroethene	38.07	4.8	48.5	0	78.5	78 - 122	32.96	14.4	30	
cis-1,3-Dichloropropene	38.18	4.8	48.5	0	78.7	77 - 123	31.9	17.9	30	
Cyclohexane	36.91	4.8	48.5	0	76.1	74 - 126	32.45	12.8	30	
Dibromochloromethane	39.69	4.8	48.5	0	81.8	78 - 122	33.59	16.7	30	
Dichlorodifluoromethane	38.51	4.8	48.5	0	79.4	57 - 140	34.61	10.7	30	
Ethylbenzene	38.26	4.8	48.5	0	78.9	80 - 122	33.4	13.6	30	S

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259176 **Instrument: VOA5** **Method: SW8260**

MSD Sample ID: **HS15080052-02MSD** Units: **ug/Kg** Analysis Date: **06-Aug-2015 16:40**
Client ID: Run ID: **VOA5_259176** SeqNo: **3381514** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	38.82	4.8	48.5	0	80.0	72 - 127	33.71	14.1	30	
m,p-Xylene	76.54	9.7	97	0	78.9	79 - 122	66.18	14.5	30	S
Methyl acetate	36.45	4.8	48.5	0	75.2	69 - 123	33.94	7.14	30	
Methyl tert-butyl ether	38.67	4.8	48.5	0	79.7	76 - 124	32.32	17.9	30	
Methylcyclohexane	38.46	4.8	48.5	0	79.3	77 - 127	34.14	11.9	30	
Methylene chloride	39.67	9.7	48.5	0	81.8	65 - 130	34.98	12.6	30	
o-Xylene	38.61	4.8	48.5	0	79.6	80 - 123	32.75	16.4	30	S
Styrene	38.72	4.8	48.5	0	79.8	78 - 124	33.13	15.6	30	
Tetrachloroethene	29.36	4.8	48.5	0	60.5	70 - 130	26.06	11.9	30	S
Toluene	35.96	4.8	48.5	0	74.1	79 - 120	31.07	14.6	30	S
trans-1,2-Dichloroethene	37.02	4.8	48.5	0	76.3	79 - 122	32.91	11.8	30	S
trans-1,3-Dichloropropene	38.09	4.8	48.5	0	78.5	77 - 120	31.87	17.8	30	
Trichloroethene	38.94	4.8	48.5	0	80.3	75 - 123	33.38	15.4	30	
Trichlorofluoromethane	38.44	4.8	48.5	0	79.3	75 - 126	34.4	11.1	30	
Vinyl chloride	37.99	1.9	48.5	0	78.3	76 - 126	33.67	12	30	
Xylenes, Total	115.1	9.7	145.5	0	79.1	80 - 120	98.93	15.1	30	S
Surr: 1,2-Dichloroethane-d4	*47.18*	*0*	*48.5*	*0*	*97.3*	*70 - 128*	*46.55*	*1.35*	*30*	
Surr: 4-Bromofluorobenzene	*47.43*	*0*	*48.5*	*0*	*97.8*	*73 - 126*	*46.49*	*1.99*	*30*	
Surr: Dibromofluoromethane	*47.76*	*0*	*48.5*	*0*	*98.5*	*71 - 128*	*47.53*	*0.48*	*30*	
Surr: Toluene-d8	*47.16*	*0*	*48.5*	*0*	*97.2*	*73 - 127*	*46.98*	*0.37*	*30*	

The following samples were anayzed in this batch: HS15080177-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259310 **Instrument: Balance1** **Method: SW3550**

DUP Sample ID: **HS15080153-17DUP** Units: **wt%** Analysis Date: **10-Aug-2015 12:06**
Client ID: Run ID: **Balance1_259310** SeqNo: **3383564** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	0.175	0.0100					0.136	25.1	20	R

The following samples were anayzed in this batch: HS15080177-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15080177

QC BATCH REPORT

Batch ID: R259944 **Instrument: Balance1** **Method: SW3550**

DUP Sample ID: **HS15080632-09DUP** Units: **wt%** Analysis Date: **21-Aug-2015 12:13**
Client ID: Run ID: **Balance1_259944** SeqNo: **3396694** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	12.8	0.0100					13.2	3.08	20	

The following samples were anayzed in this batch: HS15080177-02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: **HS15080177**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Aug-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Work Order: HS15080177

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15080177-01	HA-1 (0-0.5')	Login	8/6/2015 10:19:29 AM	PMG	VW-2
HS15080177-01	HA-1 (0-0.5')	Login	8/6/2015 10:19:29 AM	PMG	LF-06
HS15080177-02	HA-1 (1-3')	Login	8/6/2015 10:19:29 AM	PMG	VW-2
HS15080177-02	HA-1 (1-3')	Login	8/6/2015 10:19:29 AM	PMG	LF-06
HS15080177-03	HA-1 (3-5')	Login	8/6/2015 10:19:29 AM	PMG	VW-2
HS15080177-03	HA-1 (3-5')	Login	8/6/2015 10:19:29 AM	PMG	LF-06

Sample Receipt Checklist

Client Name: WM_Fort Worth
Work Order: HS15080177

Date/Time Received: **04-Aug-2015 14:55**
Received by: **BHH**

Checklist completed by: *Paresh M. Giga* eSignature — 6-Aug-2015 Date

Reviewed by: *Bernadette A. Fini* eSignature — 6-Aug-2015 Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☐	No ☑	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.4c/2.0c U/C	IR5	
Cooler(s)/Kit(s):	24503		
Date/Time sample(s) sent to storage:	8/6/15 10:30		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Environmental

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody For

Page ____ of ____

COC ID: 20748

HS15080177

W&M Environmental Group, L.L.C

1483.003

ton, WV 68

:80

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	
Work Order		Project Number	1483.003
Company Name	W&M ENVIRONMENTAL GROUP, LLC	Bill To Company	RE: TO LEFT
Send Report To	NCRAMER	Invoice Attn	
Address	6825 MANHATTAN BLVD SUITE 125 FORT WORTH, TX 76120	Address	
City/State/Zip		City/State/Zip	
Phone	817-402-3128	Phone	
Fax		Fax	
e-Mail Address	NCRAMER@WM-M.COM	e-Mail Address	ACCOUNTS_PAYABLE@WM-M.COM

A	TPH (TX 1005)
B	VOC (EPA 8260)
C	ORGANOCHLORINE PESTICIDES (EPA 8081)
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	HA-1 (0-0.5')	8/4/15	7:50A	SOIL	8	2	X	X	X								
2	HA-1 (1-3')	8/4/15	8:20A	SOIL	8	2											
3	HA-1 (3-5')	8/4/15	8:40A	SOIL	8	2											X
4																	X
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: NCRAMER

Shipment Method:

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☒ STD 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date:

Relinquished by: Date: 8/4/15 Time: 14:55 Received by:

Relinquished by: Date: 8-4-15 Time: 17:00 Received by (Laboratory): Bft Soma 08/05/15 08:55

Logged by (Laboratory): Date: Time: Checked by (Laboratory):

Notes: MOISTURE CONT.

Cooler ID	Cooler Temp
	U/C
24503	1.4

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Date
☐ Level IV SW846/CLP
☐ Other ____
☒ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

IR#5 CF 0.6

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

24503

CUSTODY SEAL

Date: 8-14-15 Time: 1520
Name: John G
Company: ALS

Seal Broken By:
Date: 08/05/15

24503 08/05/15

TRK# 0215 8082 4120 4433

WED – 05 AUG 10:30A
PRIORITY OVERNIGHT

43 SGRA 24503

77099
TX-US IAH

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

September 23, 2015

Ross Zapalac
W&M Environmental Group, L.L.C
6825 Manhattan Blvd.
Suite 125
Fort Worth, TX 76120

Work Order: **HS15090741**

Laboratory Results for: **1483.003**

Dear Ross,

ALS Environmental received 5 sample(s) on Sep 16, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Bernadette A. Fini
Project Manager

Client:	W&M Environmental Group, L.L.C	**TRRP Laboratory Data Package Cover Page**
Project:	1483.003	
WorkOrder:	**HS15090741**	

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:

a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:

a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

ALS Group USA, Corp Date: 23-Sep-15

Client:	W&M Environmental Group, L.L.C
Project:	1483.003
WorkOrder:	**HS15090741**

TRRP Laboratory Data Package Cover Page

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bernadette A. Fini
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 09/23/2015					
Project Name: 1483.003			Laboratory Job Number: HS15090741					
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 97168, R261412					
#[1]	A[2]	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 09/23/2015				
Project Name: 1483.003			Laboratory Job Number: HS15090741				
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 97168, R261412				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Laboratory Group		LRC Date: 09/23/2015
Project Name: 1483.003		Laboratory Job Number: HS15090741
Reviewer Name: Bernadette Fini		Prep Batch Number(s): 97168, R261412
ER#[5]	**Description**	
1	Texas TPH by TX 1005, samples CS-02 " 0-1' ", CS-03 " 0-1' "and CS-04 " 0-1' ": One or more surrogate recoveries were above the upper control limits. No target analytes were detected in the sample. The high surrogate recoveries did not impact the non-detect results for target analytes.	
2	Batch R261412, Percent Moisture Method SW3550, sample Comp-1, The RPD between the sample and its duplicate was outside the control limit	

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Work Order: HS15090741

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15090741-01	CS-01 " 0-1' "	Soil		15-Sep-2015 12:25	16-Sep-2015 16:10	☐
HS15090741-02	CS-02 " 0-1' "	Soil		15-Sep-2015 11:20	16-Sep-2015 16:10	☐
HS15090741-03	CS-03 " 0-1' "	Soil		15-Sep-2015 11:30	16-Sep-2015 16:10	☐
HS15090741-04	CS-04 " 0-1' "	Soil		15-Sep-2015 11:50	16-Sep-2015 16:10	☐
HS15090741-05	Comp - 1	Soil		15-Sep-2015 12:10	16-Sep-2015 16:10	☐

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: CS-01 " 0-1' "
Collection Date: 15-Sep-2015 12:25

ANALYTICAL REPORT
WorkOrder:HS15090741
Lab ID:HS15090741-01
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 17-Sep-2015		Analyst: JKP
nC6 to nC12	U		120	600	mg/Kg-dry	10	18-Sep-2015 20:39
>nC12 to nC28	**5,300**		**120**	**600**	**mg/Kg-dry**	10	18-Sep-2015 20:39
>nC28 to nC35	**4,600**		**120**	**600**	**mg/Kg-dry**	10	18-Sep-2015 20:39
Total Petroleum Hydrocarbon	**9,900**		**120**	**600**	**mg/Kg-dry**	10	18-Sep-2015 20:39
Surr: 2-Fluorobiphenyl	*118*			*70-130*	*%REC*	*10*	*18-Sep-2015 20:39*
Surr: Trifluoromethyl benzene	*108*			*70-130*	*%REC*	*10*	*18-Sep-2015 20:39*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**17.8**		**0.0100**	**0.0100**	**wt%**	1	18-Sep-2015 11:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: CS-02 " 0-1' "
Collection Date: 15-Sep-2015 11:20

ANALYTICAL REPORT
WorkOrder:HS15090741
Lab ID:HS15090741-02
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 17-Sep-2015		Analyst: JKP
nC6 to nC12		U	12	58	mg/Kg-dry	1	22-Sep-2015 00:28
>nC12 to nC28		U	12	58	mg/Kg-dry	1	22-Sep-2015 00:28
>nC28 to nC35		U	12	58	mg/Kg-dry	1	22-Sep-2015 00:28
Total Petroleum Hydrocarbon		U	12	58	mg/Kg-dry	1	22-Sep-2015 00:28
Surr: 2-Fluorobiphenyl	*263*	*S*		*70-130*	*%REC*	*1*	*22-Sep-2015 00:28*
Surr: Trifluoromethyl benzene	*217*	*S*		*70-130*	*%REC*	*1*	*22-Sep-2015 00:28*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**14.7**		**0.0100**	**0.0100**	**wt%**	1	18-Sep-2015 11:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: CS-03 " 0-1' "
Collection Date: 15-Sep-2015 11:30

ANALYTICAL REPORT
WorkOrder:HS15090741
Lab ID:HS15090741-03
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 17-Sep-2015		Analyst: JKP
nC6 to nC12		U	11	57	mg/Kg-dry	1	22-Sep-2015 00:59
>nC12 to nC28		U	11	57	mg/Kg-dry	1	22-Sep-2015 00:59
>nC28 to nC35		U	11	57	mg/Kg-dry	1	22-Sep-2015 00:59
Total Petroleum Hydrocarbon		U	11	57	mg/Kg-dry	1	22-Sep-2015 00:59
Surr: 2-Fluorobiphenyl	*237*	*S*		*70-130*	*%REC*	*1*	*22-Sep-2015 00:59*
Surr: Trifluoromethyl benzene	*214*	*S*		*70-130*	*%REC*	*1*	*22-Sep-2015 00:59*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**13.4**		**0.0100**	**0.0100**	**wt%**	1	18-Sep-2015 11:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: CS-04 " 0-1' "
Collection Date: 15-Sep-2015 11:50

ANALYTICAL REPORT
WorkOrder:HS15090741
Lab ID:HS15090741-04
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 17-Sep-2015		Analyst: JKP
nC6 to nC12		U	11	57	mg/Kg-dry	1	22-Sep-2015 01:31
>nC12 to nC28		U	11	57	mg/Kg-dry	1	22-Sep-2015 01:31
>nC28 to nC35		U	11	57	mg/Kg-dry	1	22-Sep-2015 01:31
Total Petroleum Hydrocarbon		U	11	57	mg/Kg-dry	1	22-Sep-2015 01:31
Surr: 2-Fluorobiphenyl	*175*	*S*		*70-130*	*%REC*	*1*	*22-Sep-2015 01:31*
Surr: Trifluoromethyl benzene	*166*	*S*		*70-130*	*%REC*	*1*	*22-Sep-2015 01:31*
MOISTURE		**Method:SW3550**					Analyst: JHD
Percent Moisture	**12.6**		**0.0100**	**0.0100**	**wt%**	1	18-Sep-2015 11:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: Comp - 1
Collection Date: 15-Sep-2015 12:10

ANALYTICAL REPORT
WorkOrder:HS15090741
Lab ID:HS15090741-05
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TEXAS TPH BY TX1005	**Method:TX1005**				Prep:TX1005PR / 17-Sep-2015		Analyst: JKP
nC6 to nC12	U		110	570	mg/Kg-dry	10	23-Sep-2015 14:40
>nC12 to nC28	**1,500**		**110**	**570**	**mg/Kg-dry**	10	23-Sep-2015 14:40
>nC28 to nC35	**1,500**		**110**	**570**	**mg/Kg-dry**	10	23-Sep-2015 14:40
Total Petroleum Hydrocarbon	**3,000**		**110**	**570**	**mg/Kg-dry**	10	23-Sep-2015 14:40
Surr: 2-Fluorobiphenyl	*85.2*			*70-130*	*%REC*	*10*	*23-Sep-2015 14:40*
Surr: Trifluoromethyl benzene	*105*			*70-130*	*%REC*	*10*	*23-Sep-2015 14:40*
MOISTURE	**Method:SW3550**						Analyst: JHD
Percent Moisture	**13.2**		**0.0100**	**0.0100**	**wt%**	1	18-Sep-2015 11:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15090741

Batch ID: 97168 **Method:** TEXAS TPH BY TX1005 **Prep:** TX 1005_S PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15090741-01	1	10.09	10 (mL)	0.9911
HS15090741-02	1	10.16	10 (mL)	0.9843
HS15090741-03	1	10.15	10 (mL)	0.9852
HS15090741-04	1	10.08	10 (mL)	0.9921
HS15090741-05	1	10.19	10 (mL)	0.9814

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15090741

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 97168	**Test Name :** TEXAS TPH BY TX1005			**Matrix:** Soil		
HS15090741-01	CS-01 " 0-1' "	15 Sep 2015 12:25		17 Sep 2015 12:38	18 Sep 2015 20:39	10
HS15090741-02	CS-02 " 0-1' "	15 Sep 2015 11:20		17 Sep 2015 12:38	22 Sep 2015 00:28	1
HS15090741-03	CS-03 " 0-1' "	15 Sep 2015 11:30		17 Sep 2015 12:38	22 Sep 2015 00:59	1
HS15090741-04	CS-04 " 0-1' "	15 Sep 2015 11:50		17 Sep 2015 12:38	22 Sep 2015 01:31	1
HS15090741-05	Comp - 1	15 Sep 2015 12:10		17 Sep 2015 12:38	23 Sep 2015 14:40	10
Batch ID R261412	**Test Name :** MOISTURE			**Matrix:** Soil		
HS15090741-01	CS-01 " 0-1' "	15 Sep 2015 12:25			18 Sep 2015 11:22	1
HS15090741-02	CS-02 " 0-1' "	15 Sep 2015 11:20			18 Sep 2015 11:22	1
HS15090741-03	CS-03 " 0-1' "	15 Sep 2015 11:30			18 Sep 2015 11:22	1
HS15090741-04	CS-04 " 0-1' "	15 Sep 2015 11:50			18 Sep 2015 11:22	1
HS15090741-05	Comp - 1	15 Sep 2015 12:10			18 Sep 2015 11:22	1

WorkOrder: HS15090741
InstrumentID: FID-13
Test Code: TX1005_S_REV3
Test Number: TX1005
Test Name: Texas TPH by TX1005

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	nC6 to nC12	TPHGRO	25	42	10	50
A	>nC12 to nC28	TPHDRO	25	25	10	50
A	>nC28 to nC35	10W40MOTOROIL	25	25	10	50
A	Total Petroleum Hydrocarbon	TPH	50	68	10	50
S	2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Trifluoromethyl benzene	98-08-8	0	0	0	0

WorkOrder: HS15090741
InstrumentID: Balance1
Test Code: MOIST_SW3550
Test Number: SW3550
Test Name: Moisture

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** wt%

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Percent Moisture	MOIST	0	0	0.0100	0.0100

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15090741

QC BATCH REPORT

Batch ID: 97168 **Instrument: FID-13** **Method: TX1005**

MBLK Sample ID: **MBLK-97168** Units: **mg/Kg** Analysis Date: **17-Sep-2015 17:51**
Client ID: Run ID: **FID-13_261450** SeqNo: **3427760** PrepDate: **17-Sep-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
Surr: 2-Fluorobiphenyl	*23.75*	*0*	*25*	*0*	*95.0*	*70 - 130*				
Surr: Trifluoromethyl benzene	*25.12*	*0*	*25*	*0*	*100*	*70 - 130*				

LCS Sample ID: **LCS-97168** Units: **mg/Kg** Analysis Date: **17-Sep-2015 18:24**
Client ID: Run ID: **FID-13_261450** SeqNo: **3427761** PrepDate: **17-Sep-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	242.3	50	250	0	96.9	75 - 125				
>nC12 to nC28	236.2	50	250	0	94.5	75 - 125				
Surr: 2-Fluorobiphenyl	*30.45*	*0*	*25*	*0*	*122*	*70 - 130*				
Surr: Trifluoromethyl benzene	*27.01*	*0*	*25*	*0*	*108*	*70 - 130*				

LCSD Sample ID: **LCSD-97168** Units: **mg/Kg** Analysis Date: **17-Sep-2015 18:56**
Client ID: Run ID: **FID-13_261450** SeqNo: **3427762** PrepDate: **17-Sep-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	228	50	250	0	91.2	75 - 125	242.3	6.06	20	
>nC12 to nC28	216.5	50	250	0	86.6	75 - 125	236.2	8.71	20	
Surr: 2-Fluorobiphenyl	*26.19*	*0*	*25*	*0*	*105*	*70 - 130*	*30.45*	*15.1*	*20*	
Surr: Trifluoromethyl benzene	*23.94*	*0*	*25*	*0*	*95.8*	*70 - 130*	*27.01*	*12.1*	*20*	

MS Sample ID: **HS15090570-01MS** Units: **mg/Kg** Analysis Date: **18-Sep-2015 00:17**
Client ID: Run ID: **FID-13_261450** SeqNo: **3427764** PrepDate: **17-Sep-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	227.9	49	247	0	92.2	75 - 125				
>nC12 to nC28	209.7	49	247	0	84.9	75 - 125				
Surr: 2-Fluorobiphenyl	*27.51*	*0*	*24.7*	*0*	*111*	*70 - 130*				
Surr: Trifluoromethyl benzene	*22.86*	*0*	*24.7*	*0*	*92.6*	*70 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15090741

QC BATCH REPORT

Batch ID: 97168 **Instrument: FID-13** **Method: TX1005**

MSD Sample ID: **HS15090570-01MSD** Units: **mg/Kg** Analysis Date: **18-Sep-2015 00:50**
Client ID: Run ID: **FID-13_261450** SeqNo: **3427765** PrepDate: **17-Sep-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	219.7	49	246.3	0	89.2	75 - 125	227.9	3.64	20	
>nC12 to nC28	201.8	49	246.3	0	81.9	75 - 125	209.7	3.82	20	
Surr: 2-Fluorobiphenyl	*26.48*	*0*	*24.63*	*0*	*108*	*70 - 130*	*27.51*	*3.8*	*20*	
Surr: Trifluoromethyl benzene	*22.14*	*0*	*24.63*	*0*	*89.9*	*70 - 130*	*22.86*	*3.2*	*20*	

The following samples were anayzed in this batch: HS15090741-01 HS15090741-02 HS15090741-03 HS15090741-04 HS15090741-05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15090741

QC BATCH REPORT

Batch ID: R261412 **Instrument: Balance1** **Method: SW3550**

DUP Sample ID: **HS15090741-05DUP** Units: **wt%** Analysis Date: **18-Sep-2015 11:22**
Client ID: **Comp - 1** Run ID: **Balance1_261412** SeqNo: **3427039** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	10.5	0.0100					13.2	22.8	20	R

The following samples were anayzed in this batch: HS15090741-01 HS15090741-02 HS15090741-03 HS15090741-04 HS15090741-05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: **HS15090741**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	30-Sep-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Work Order: HS15090741

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15090741-01	CS-01 " 0-1' "	Login	9/17/2015 1:59:59 PM	RPG	LF-13
HS15090741-02	CS-02 " 0-1' "	Login	9/17/2015 1:59:59 PM	RPG	LF-13
HS15090741-03	CS-03 " 0-1' "	Login	9/17/2015 1:59:59 PM	RPG	LF-13
HS15090741-04	CS-04 " 0-1' "	Login	9/17/2015 1:59:59 PM	RPG	LF-13
HS15090741-05	Comp - 1	Login	9/17/2015 2:05:09 PM	RPG	LF-13
HS15090741-05	Comp - 1	Login	9/17/2015 2:05:09 PM	RPG	2D

Sample Receipt Checklist

Client Name: WM_Fort Worth
Work Order: HS15090741
Date/Time Received: **16-Sep-2015 16:10**
Received by: **RPG**

Checklist completed by: *Raegen Giga* eSignature 17-Sep-2015 Date
Reviewed by: *Bernadette A. Fini* eSignature 18-Sep-2015 Date

Matrices: **soil**
Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☐	No ☑	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☑	N/A ☐
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.3c/1.2c uc/c		IR 1
Cooler(s)/Kit(s):	5912		
Date/Time sample(s) sent to storage:	09/17/2015 14:11		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:
COC = CS-01
Container Labels = CS-01 0-1'
Above applies to all samples

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Environmental

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 20847

HS15090741

W&M Environmental Group, L.L.C

1483.003

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name		A	TPH by Texas 1005
Work Order		Project Number	1483.003	B	Moisture
Company Name	W&M Environmental	Bill To Company	Re: To Left	C	
Send Report To	Ross Zapalac, Nick Cramer	Invoice Attn	accounts payable	D	
Address	6825 Manhattan Blvd. Unit 125	Address		E	
				F	
City/State/Zip	Fort Worth, TX, 76120	City/State/Zip		G	
Phone	817-402-3128	Phone		H	
Fax		Fax		I	
e-Mail Address	rzapalac@wh-m.com, ncramer@wh-m.com	e-Mail Address	accounts_payable@wh-m.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CS-01	9/15/15	1225	Soil	—	1	X	X									
2	CS-02	↓	1120	↓	↓	1	X	X									
3	CS-03		1130			1	X	X									
4	CS-04		1150			1	X	X									
5	COMP-1		1210			2	X	X									
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Ross Zapalac RBZ

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☑ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: RBZ Date: 9/16/15 Time: 12:35

Relinquished by: Date: 9-16-15 Time: 16:10

Received by:

Received by (Laboratory):

Logged by (Laboratory): Date: Time:

Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
5912	4/6 1.3
	IR #1

QC Package: (Check One Box Below)
☐ Level II Std QC ☑ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

CIP-01

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the rev
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

5912

CUSTODY SEAL	Seal Broken By:
Date: 9-16-15 Time: 16:10	SM
Name: Danielle Winning	Date: 09/17/15
Company: ALS Environmental	

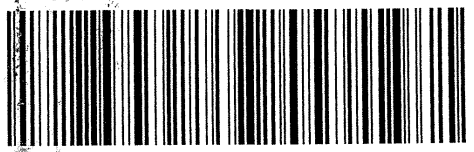
5912 09/17/15

FedEx TRK# 0215 8082 4120 4797

THU - 17 SEP 10:30A
PRIORITY OVERNIGHT

77099
TX-US
IAH

43 SGRA 5912



FID 274864 16SEP15 MWLA 537C2/CBB9/EE4B

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

November 09, 2015

Ross Zapalac
W&M Environmental Group, L.L.C
6825 Manhattan Blvd.
Suite 125
Fort Worth, TX 76120

Work Order: **HS15110159**

Laboratory Results for: **1483.003**

Dear Ross,

ALS Environmental received 1 sample(s) on Nov 03, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Bernadette A. Fini
Project Manager

Client:	W&M Environmental Group, L.L.C	**TRRP Laboratory Data Package Cover Page**
Project:	1483.003	
WorkOrder:	**HS15110159**	

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:

a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:

a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

ALS Group USA, Corp Date: 09-Nov-15

Client:	W&M Environmental Group, L.L.C
Project:	1483.003
WorkOrder:	**HS15110159**

TRRP Laboratory Data Package Cover Page

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Bernadette A. Fini
Project Manager

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 11/09/2015				
Project Name: 1483.003			Laboratory Job Number: HS15110159				
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 98727, R264394				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 11/09/2015				
Project Name: 1483.003			Laboratory Job Number: HS15110159				
Reviewer Name: Bernadette Fini			Prep Batch Number(s): 98727, R264394				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Laboratory Group		LRC Date: 11/09/2015
Project Name: 1483.003		Laboratory Job Number: HS15110159
Reviewer Name: Bernadette Fini		Prep Batch Number(s): 98727, R264394
ER#[5]	**Description**	
	No Exceptions noted	

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Work Order: HS15110159

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15110159-01	CS-05 2.75-3'	Soil		03-Nov-2015 10:30	03-Nov-2015 09:00	☐

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Sample ID: CS-05 2.75-3'
Collection Date: 03-Nov-2015 10:30

ANALYTICAL REPORT
WorkOrder:HS15110159
Lab ID:HS15110159-01
Matrix:Soil

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 05-Nov-2015		Analyst: KHT
nC6 to nC12		U	12	61	mg/Kg-dry	1	05-Nov-2015 22:25
>nC12 to nC28		U	12	61	mg/Kg-dry	1	05-Nov-2015 22:25
>nC28 to nC35		U	12	61	mg/Kg-dry	1	05-Nov-2015 22:25
Total Petroleum Hydrocarbon		U	12	61	mg/Kg-dry	1	05-Nov-2015 22:25
Surr: 2-Fluorobiphenyl	*93.9*			*70-130*	*%REC*	*1*	*05-Nov-2015 22:25*
Surr: Trifluoromethyl benzene	*74.7*			*70-130*	*%REC*	*1*	*05-Nov-2015 22:25*
MOISTURE		**Method:SW3550**					Analyst: DFF
Percent Moisture	**18.5**		**0.0100**	**0.0100**	**wt%**	1	06-Nov-2015 12:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15110159

Batch ID: 98727 **Method:** TEXAS TPH BY TX1005 **Prep:** TX 1005_S PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15110159-01	1	10.04	10 (mL)	0.996

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15110159

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 98727	**Test Name :** TEXAS TPH BY TX1005			**Matrix:** Soil		
HS15110159-01	CS-05 2.75-3'	03 Nov 2015 10:30		05 Nov 2015 11:30	05 Nov 2015 22:25	1
Batch ID R264394	**Test Name :** MOISTURE			**Matrix:** Soil		
HS15110159-01	CS-05 2.75-3'	03 Nov 2015 10:30			06 Nov 2015 12:31	1

WorkOrder: HS15110159
InstrumentID: FID-10
Test Code: TX1005_S_REV3
Test Number: TX1005
Test Name: Texas TPH by TX1005

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** mg/Kg

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	nC6 to nC12	TPH-1005-1	25	30	10	50
A	>nC12 to nC28	TPH-1005-2	25	22	10	50
A	>nC28 to nC35	TPH-1005-3	25	22	10	50
A	Total Petroleum Hydrocarbon	TPH	50	52	10	50
S	2-Fluorobiphenyl	321-60-8	0	0	0	0
S	Trifluoromethyl benzene	98-08-8	0	0	0	0

WorkOrder: HS15110159
InstrumentID: Balance1
Test Code: MOIST_SW3550
Test Number: SW3550
Test Name: Moisture

METHOD DETECTION / REPORTING LIMITS

Matrix: Solid **Units:** wt%

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Percent Moisture	MOIST	0	0	0.0100	0.0100

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15110159

QC BATCH REPORT

Batch ID: 98727 **Instrument: FID-10** **Method: TX1005**

MBLK Sample ID: **MBLK-98727** Units: **mg/Kg** Analysis Date: **05-Nov-2015 18:32**
Client ID: Run ID: **FID-10_264392** SeqNo: **3486426** PrepDate: **05-Nov-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
Surr: 2-Fluorobiphenyl	*24.5*	*0*	*25*	*0*	*98.0*	*70 - 130*				
Surr: Trifluoromethyl benzene	*19.22*	*0*	*25*	*0*	*76.9*	*70 - 130*				

LCS Sample ID: **LCS-98727** Units: **mg/Kg** Analysis Date: **05-Nov-2015 19:01**
Client ID: Run ID: **FID-10_264392** SeqNo: **3486427** PrepDate: **05-Nov-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	236.7	50	250	0	94.7	75 - 125				
>nC12 to nC28	259.2	50	250	0	104	75 - 125				
Surr: 2-Fluorobiphenyl	*26.2*	*0*	*25*	*0*	*105*	*70 - 130*				
Surr: Trifluoromethyl benzene	*19.74*	*0*	*25*	*0*	*78.9*	*70 - 130*				

LCSD Sample ID: **LCSD-98727** Units: **mg/Kg** Analysis Date: **05-Nov-2015 19:30**
Client ID: Run ID: **FID-10_264392** SeqNo: **3486428** PrepDate: **05-Nov-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	238.3	50	250	0	95.3	75 - 125	236.7	0.672	20	
>nC12 to nC28	237.7	50	250	0	95.1	75 - 125	259.2	8.64	20	
Surr: 2-Fluorobiphenyl	*26.27*	*0*	*25*	*0*	*105*	*70 - 130*	*26.2*	*0.243*	*20*	
Surr: Trifluoromethyl benzene	*19.82*	*0*	*25*	*0*	*79.3*	*70 - 130*	*19.74*	*0.427*	*20*	

MS Sample ID: **HS15110159-01MS** Units: **mg/Kg** Analysis Date: **05-Nov-2015 22:55**
Client ID: **CS-05 2.75-3'** Run ID: **FID-10_264392** SeqNo: **3486432** PrepDate: **05-Nov-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	241.4	49	247.3	0	97.6	75 - 125				
>nC12 to nC28	237.2	49	247.3	0	95.9	75 - 125				
Surr: 2-Fluorobiphenyl	*26.72*	*0*	*24.73*	*0*	*108*	*70 - 130*				
Surr: Trifluoromethyl benzene	*20.34*	*0*	*24.73*	*0*	*82.2*	*70 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15110159

QC BATCH REPORT

Batch ID: 98727 **Instrument: FID-10** **Method: TX1005**

MSD Sample ID: **HS15110159-01MSD** Units: **mg/Kg** Analysis Date: **05-Nov-2015 23:24**
Client ID: **CS-05 2.75-3'** Run ID: **FID-10_264392** SeqNo: **3486433** PrepDate: **05-Nov-2015** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	237.4	50	247.5	0	95.9	75 - 125	241.4	1.69	20	
>nC12 to nC28	239.3	50	247.5	0	96.7	75 - 125	237.2	0.859	20	
Surr: 2-Fluorobiphenyl	*25.35*	*0*	*24.75*	*0*	*102*	*70 - 130*	*26.72*	*5.24*	*20*	
Surr: Trifluoromethyl benzene	*20.15*	*0*	*24.75*	*0*	*81.4*	*70 - 130*	*20.34*	*0.918*	*20*	

The following samples were anayzed in this batch: HS15110159-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: HS15110159

QC BATCH REPORT

Batch ID: R264394 **Instrument: Balance1** **Method: SW3550**

DUP Sample ID: **HS15110181-06DUP** Units: **wt%** Analysis Date: **06-Nov-2015 12:31**
Client ID: Run ID: **Balance1_264394** SeqNo: **3486478** PrepDate: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	8.01	0.0100					8.08	0.87	20	

The following samples were anayzed in this batch: HS15110159-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: W&M Environmental Group, L.L.C
Project: 1483.003
WorkOrder: **HS15110159**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	30-Nov-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
North Dakota	R-193 2015-2016	30-Apr-2016
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

Client: W&M Environmental Group, L.L.C
Project: 1483.003
Work Order: HS15110159

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15110159-01	CS-05 2.75-3'	Login	11/4/2015 5:16:31 PM	RPG	LF-17

Sample Receipt Checklist

Client Name: WM_Fort Worth
Work Order: HS15110159
Date/Time Received: **03-Nov-2015 09:00**
Received by: **BHH**

Checklist completed by: *Raegen Giga* eSignature 4-Nov-2015 Date
Reviewed by: *Bernadette A. Fini* eSignature 5-Nov-2015 Date

Matrices: **soil**
Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☑	N/A ☐
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.4c/2.7c uc/c	IR 4	
Cooler(s)/Kit(s):	24664		
Date/Time sample(s) sent to storage:	11/04/2015 17:20		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 20669

HS15110159

W&M Environmental Group, L.L.C

1483.003

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	
Work Order		Project Number	1483.003
Company Name	W&M Environmental	Bill To Company	Re: To Left
Send Report To	Ross Zapalac, Nick Crumpler	Invoice Attn	Accounts Payable
Address	6825 Manhattan Blvd. Unit 125	Address	
City/State/Zip	Fort Worth, Tx, 76120	City/State/Zip	
Phone	817-402-3728	Phone	
Fax		Fax	
e-Mail Address	rzapalac@wm-m.com ncrumpler@wm-m.com	e-Mail Address	accounts_payable@wm-m.com

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CS-05 2.75-3'	11/3/15	1030	S	—	1	X		X								
2	~~Comp-2~~	"	1120	S		2	X RZ		X RZ								X
3	RZ																
4																	
5																	
6																	
7																	
8																	
9																	
10																	

A: TPH
C: Moisture

Sampler(s) Please Print & Sign: RBB Ross Zapalac

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: RBB	Date: 11/3/15	Time: 16:38	Received by:
Relinquished by:	Date: 11-3-15	Time: 17:20	Received by (Laboratory): BH 11/4/15 09:00
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
24664	

QC Package: (Check One Box Below)
☐ Level II Std QC ☑ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

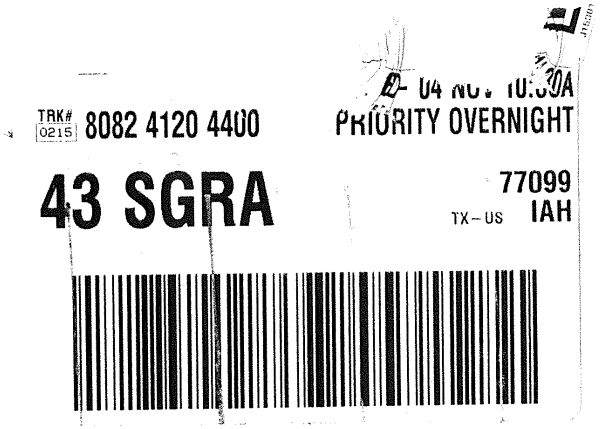
ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 11-3-15 Time: 1240
Name: Jerry Wood
Company: ALS

Seal Broken By:

Date:



STATISTICAL METHODOLOGY
(NOT APPLICABLE)

APPENDIX 7

WASTE DISPOSITION

APPENDIX 8

3829/3017

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
TXCESQG	1	(214) 798-7944	014919044 JJK

GENERATOR

5. Generator's Name and Mailing Address
1714 Vaughn Partners, LLC
1105 North Bishop Avenue
Dallas TX 75208
Generator's Phone: Prudencl Calderon (214) 798-7944

Generator's Site Address (if different than mailing address)
1714 Vaughn Partners, LLC
1714 Vaughn Blvd.
Fort Worth TX 76105

6. Transporter 1 Company Name: Green Planet, Inc. — U.S. EPA ID Number: TXR000079479

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Itasca Landfill
2559 FM 66
Itasca TX 76055- (254) 221-4443
Facility's Phone: — U.S. EPA ID Number: H0241

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. Non-Hazardous According to 40CFR None regulated material (Waste Soil)	04	DM	220	G	CESQ 3011
X	2.					
X	3.					
X	4.					

14. Special Handling Instructions and Additional Information
5110 15 13712
OS IT

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mirella Campos (Agent) — Signature — Month 8 Day 20 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Trevor Bustamante — Signature — Month 8 Day 20 Year 15

Transporter 2 Printed/Typed Name: Jose Calderon — Signature — Month 8 Day 25 Year 15

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jessica Duff — Signature — Month 8 Day 25 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **TRANSPORTER'S COPY**

SITE
ITASCA LANDFILL

ITASCA, TX 76055 254-687-2511

CUSTOMER
007030
GREEN PLANET
PO BOX 743966
DALLAS, TX 75374-3966
51101513712

SITE	TICKET #	CELL
01	105239	

WEIGHMASTER
JESSICA S.

DATE/TIME IN	DATE/TIME OUT
08-25-2015 4:25 pm	08-25-2015 4:25 pm

VEHICLE	CONTAINER
GREENP	4

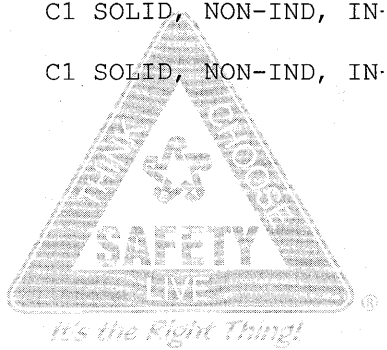
REFERENCE
1714 VAUGHN PARTNERS INVOICE

BILL OF LADING
014919044JJK

SCALE IN	GROSS WEIGHT	33,600	NET TONS	0.51
SCALE OUT	TARE WEIGHT	32,580	NET WEIGHT	1,020

INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
4.00	DR	SW-CONT SOIL C1 SOLID, NON-IND, IN-				
2.00	YD					
0.51	TN	SW-CONT SOIL C1 SOLID, NON-IND, IN-				



I HEREBY CERTIFY THAT THIS LOAD DOES NOT CONTAIN UNAUTHORIZED OR HAZARDOUS WASTE.

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE

3829 / 3017

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TXCESQG	1	(214) 796-7944	014919043 JJK

GENERATOR

5. Generator's Name and Mailing Address
1714 Vaughn Partners, LLC
1105 North Bishop Avenue
Dallas TX 75208
Generator's Phone: Prudencl Calderon (214) 796-7944

Generator's Site Address (if different than mailing address)
1714 Vaughn Partners, LLC
1714 Vaughn Blvd.
Fort Worth TX 76105

6. Transporter 1 Company Name: Green Planet, Inc.
U.S. EPA ID Number: TXR000079479

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Midstate Environmental Services, LP
400 Della Road
Hutchins TX 75401-
Facility's Phone: (214) 748-5784
U.S. EPA ID Number: TXR000082132

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
☒	1. Non-Hazardous According to 40CFR None regulated material (Waste Absorbent)	01	DM	85	G	CESQ 4891
☒	2. Non-Hazardous According to 40CFR None regulated material (Waste Oil and Water Mixture)	01	DM	55	G	CESQ 2051
☒	3.					
☒	4.					

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mirella Carmona (Agent) | Signature: Mirella Carmona | Month: 8 | Day: 20 | Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Trevor Bustamante | Signature: Trevor Bustamante | Month: 8 | Day: 20 | Year: 15

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.
H039	H039	

Midstate Environmental Services, LP.
400 Della Rd.
Hutchins, TX 75141

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Daniel Stewart | Signature: Daniel Stewart | Month: 8 | Day: 27 | Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY'S COPY

Date: 27-Aug-15

Manifest# 014919043JJK

Certificate of Recycling

Whereas: Midstate Environemtnal maintanes a facility located at 400 Della Rd, Hutchins Texas for the recycling of spent automotive oil filters, Used oil, industrial filters, and absorbants with all filter components being either recycled or utilized as products of beneficial reuse; and

Whereas, said recycling method is approved by the Environmental Protection Agency and is conducted with authorization from the Texas Commission on Environmental Quality, Recycling and Waste Minimization Division.

Now, Therefore, Midstate Environmental. Does issue this certificate to:

GREEN PLANET -1714 VAUGHN

Said recycling has been completed on or about the date of this certificate in a manner consistent with acceptable engineering standards and in compliance with applicable permits, authoriazations, rules or regulations issued or set forth by State and Federal authorities.

Terry Pefuhl

MidState Environmental

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: TXCESQG
2. Page 1 of: 1
3. Emergency Response Phone: 917-994-2417
4. Manifest Tracking Number: **014786662 JJK**

5. Generator's Name and Mailing Address
1714 Vaughn Partners, LLC
1105 North Bishop Avenue
Dallas TX 75208
Generator's Phone: 817 994-2417

Generator's Site Address (if different than mailing address)
1714 Vaughn Partners, LLC
1714 Vaughn Blvd
Fort Worth TX 76105

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name: Sunbelt Industrial Services — U.S. EPA ID Number: TXR000083462

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Progressive Turkey Creek Landfill
9100 South I-35 W
Alvarado TX 76009
Facility's Phone: 817 790-0311

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-Regulated Material (IDW Soil Cuttings)		CM	20	Y	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Profile Approval: TX20151103808

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ______
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [illegible] — Month 11 Day 6 Year 15
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Turkey Creek Landfill
9100 S I 35W
ALVARADO, TX 76009
(817) 790-0311

Ticket: 378971
Date: 11/6/2015
Time: 11:19:20 - 12:18:
Scale
Gross: 54420 lb In Scale ^1
Tare: 35180 lb Out Scale 2
Net: 19240 lb

Truck: SUNBELT27810-
Customer: SUNBELT/Sunbelt Industria
Truck Type: ROLL-OFF

Profile: 20151103808/IDW SOIL CUTTI
Generator: 1714 VAUGH/1714 VAUGHN PA
Yards:
Manifest: 014786662JJK

Comment: class 1 non ind solid

Origin	Materials & Services	Quantity	Unit	Rate/Unit	Amount
FTW/FORTWORTH	100% of LFC1LNHWI/LF CLASS 1	9.62	TON		
FTW/FORTWORTH	0.% of LFENV/LANDFILL ENVIORI	9.62	TON		

Driver:

Deputy Weighmaster:
ZULLY BLUM